

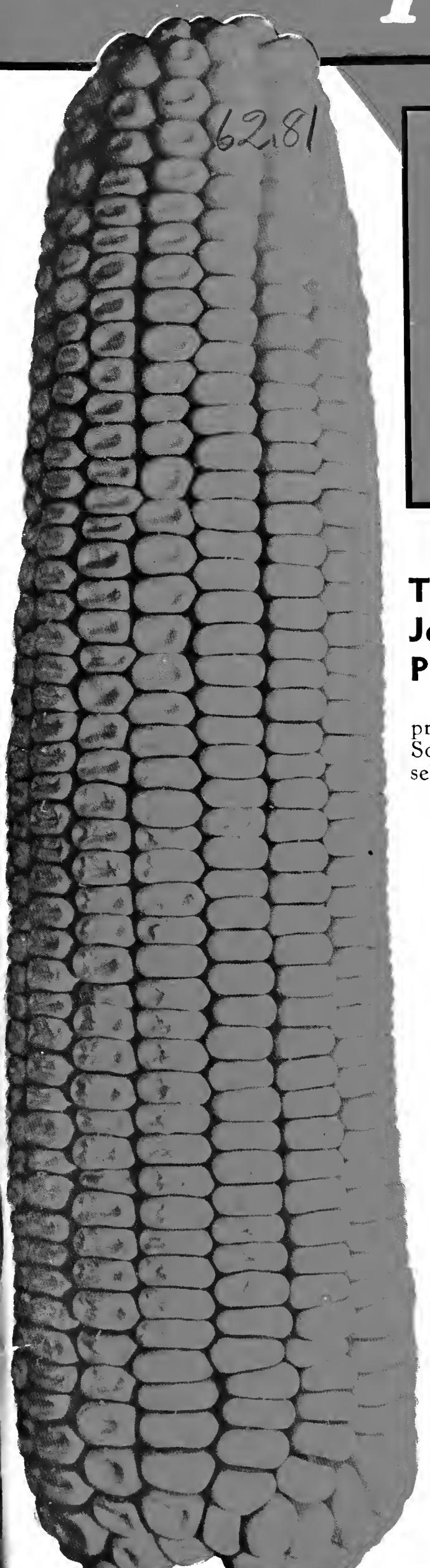
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**Do not assume content reflects current scientific knowledge, policies, or practices.**



# TOP NOTCH SEEDS

## 1939 Catalog



We Are  
Distributors  
for D. & P. L.  
(Deltapine)  
11-A

Foundation Plant-  
ing Cottonseed  
Bred and Grown by  
Delta & Pine  
Land Co.  
SCOTT, MISS.

See page 14.

### TOP NOTCH Jarvis Golden Prolific Corn

The very best yellow  
prolific variety for the  
South. We offer carefully  
selected seed. See page 13.

### TOP NOTCH Hardy Oklahoma Alfalfa

Recommended by Government and State  
Experiment Stations for the South. See  
page 2.



RUSSELL-HECKLE SEED CO.  
MEMPHIS, TENN.



## Lilliput Zinnias

### Pastel Mixture

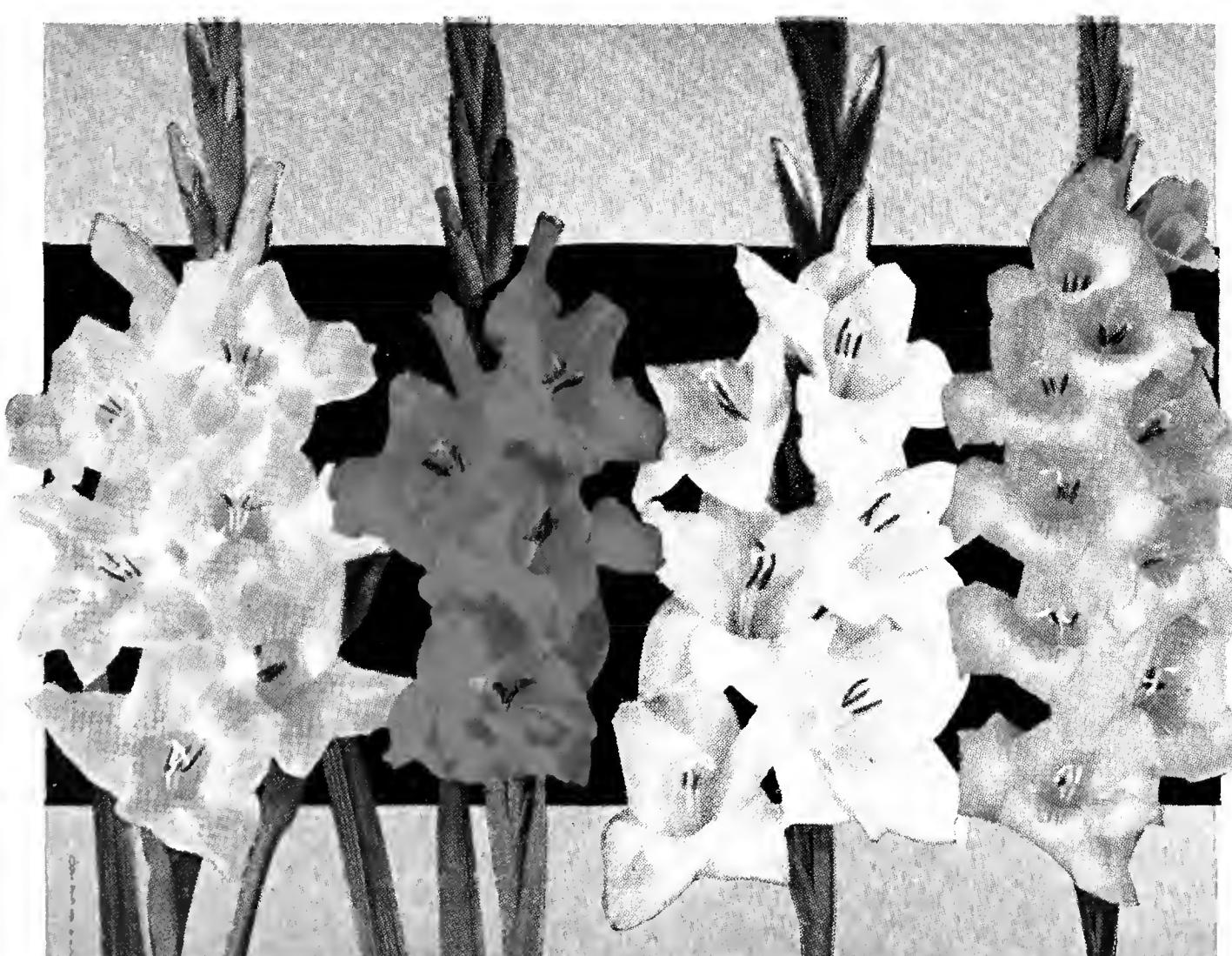
Because of the neat, compact, symmetrical habit of the flowers, together with their small size and stem length, they are particularly fine for cutting for bouquets or in the home. The pastel shades make a wonderful combination of the newest colors. Plants 12 to 15 inches in height, compact and free flowering.

Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 35c;  $\frac{1}{2}$  oz., 50c; 1 oz., 75c, postpaid.

## New Russell LUPINES

These new creations in Lupines have startled all flower lovers; their striking colors are distinctive, bright and colorful. Our stock is from the originator in sealed packets.

Price, packet of 12 seeds, 25c; packet 50 seeds, 65c; packet 120 seeds, \$1.25, postpaid.



## Gladiolus

PICARDY. Late, apricot-pink. 3 for 20c; 12 for 50c; 100 for \$2.95, postpaid.

CRIMSON GLOW. Midseason, clear crimson. 3 for 15c; 12 for 40c; 100 for \$2.20, postpaid.

MIDNIGHTS. Midseason, snow-white. 3 for 25c; 12 for 60c; 100 for \$3.20, postpaid.

BETTY NUTHALL. Late, coral-pink with orange throat. 3 for 15c; 12 for 40c; 100 for \$2.20.

### Special Offer

3 each above 4 varieties, 50c, postpaid.  
12 each above 4 varieties, \$1.50, postpaid.  
25 each above 4 varieties, \$2.50, postpaid.



## Marigold "Sunrise"

Flowers large, bell-shaped, brilliant golden yellow, a ray of dazzling pure beauty. They are 100 per cent double and are early blooming. Plants are tall, bushy and heavily covered with colorful blooms and remain in flower over a long period.

Pkt., 15c; 2 pkts., 25c;  $\frac{1}{32}$  oz., 50c;  $\frac{1}{16}$  oz., 75c;  $\frac{1}{8}$  oz., \$1.00, postpaid.

# FIELD SEEDS When to Plant . . . How Much to Plant

Variety	When to Plant	Quantity for an Acre	Distance Between Rows	Distance Apart in the Row	Depth to Plant	Pounds to the Bushel
Alfalfa . . . . .	Mar., Apr.—Sept., Oct.	25 to 30 lbs.	Broadcast	Broadcast	$\frac{3}{4}$ to 1 in.	60 lbs.
Artichokes, Jerusalem . . . . .	Mar., April, May	3 to 4 bus.	$3\frac{1}{2}$ to 4 ft.	15 to 18 ins.	4 ins.	50 lbs.
Barley . . . . .	Sept., Oct.	1 $\frac{1}{2}$ bu.	Broadcast	Broadcast	2 ins.	48 lbs.
Beet, Mangel Stock . . . . .	March, April, May	6 to 8 lbs.	18 to 24 ins	8 ins.	1 in.	30 lbs.
Broom Corn . . . . .	April, May, June	6 to 8 lbs.	3 $\frac{1}{2}$ ft.	8 to 10 ins.	1 in.	46 lbs.
Buckwheat . . . . .	May, June, July	1 bu.	Broadcast	Broadcast	1 in.	50 lbs.
Beans, Navy Field . . . . .	May, June, July	1 to 1 $\frac{1}{2}$ pks.	4 ft.	6 to 8 ins.	1 in.	60 lbs.
Chufas . . . . .	April to June	1 pk.	3 ft.	15 to 18 ins.	2 ins.	44 lbs.
Clover, Alsike . . . . .	Mar. to May—Sept.	6 to 8 lbs.	Broadcast	Broadcast	$\frac{3}{4}$ to 1 in.	60 lbs.
Clover, Burr . . . . .	Aug., Sept., Oct.	30 to 40 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	10 lbs.
Clover, Burr, in Cotton rows . . . . .	Aug., Sept., Oct.	20 to 25 lbs.	Side of row	3 to 4 ins.	$\frac{1}{2}$ in.	10 lbs.
Clover, Crimson . . . . .	Aug., Sept., Oct.	15 to 18 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	60 lbs.
Clover, Hop . . . . .	Feb., Mar., Apr.—Sept.	10 to 12 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ in.	60 lbs.
Clover, Sweet Melilotus . . . . .	Mar., Apr.—Sept., Oct.	15 to 25 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ in.	60 lbs.
Clover, Mammoth Sapling . . . . .	Mar., Apr.—Sept., Oct.	8 to 10 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	60 lbs.
Clover, Red . . . . .	Mar., Apr.—Sept., Oct.	8 to 10 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	60 lbs.
Clover, White Dutch . . . . .	Feb., Mar.—Sept. Oct.	4 to 6 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ in.	60 lbs.
Cow Peas, in Drills . . . . .	Apr., May, June, July.	$\frac{1}{2}$ to 1 bu.	18 to 24 ins	2 to 3 ins.	2 ins.	60 lbs.
Cow Peas, Broadcast . . . . .	Apr., May, June, July.	1 $\frac{1}{2}$ to 2 bus.	Broadcast	Broadcast	2 ins.	60 lbs.
Corn, Field . . . . .	April to August	4 to 6 qts.	3 $\frac{1}{2}$ to 4 ft.	18 to 24 ins.	2 ins.	56 lbs.
Crotalaria . . . . .	April, May, June	12 to 15 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ to $\frac{3}{4}$ in.	40 lbs.
Crotalaria, Drilled . . . . .	April, May, June	5 to 6 lbs.	2 ft.	10 to 12 ins.	$\frac{1}{2}$ to $\frac{3}{4}$ in.	40 lbs.
Cotton Seed . . . . .	April, May, June	1 bu.	3 $\frac{1}{2}$ to 4 ft.	12 to 15 ins.	$\frac{3}{4}$ to 1 in.	32 lbs.
Egyptian Wheat, Shallu . . . . .	May, June, July	10 to 12 lbs.	3 $\frac{1}{2}$ ft.	12 to 15 ins.	1 $\frac{1}{2}$ to 2 ins.	50 lbs.
Feterita . . . . .	May, June, July	6 to 8 lbs.	3 $\frac{1}{2}$ to 4 ft.	4 to 5 ins.	1 $\frac{1}{2}$ to 2 ins.	50 lbs.
Kaffir Corn . . . . .	May, June, July	6 to 8 lbs.	3 $\frac{1}{2}$ to 4 ft.	4 to 6 ins.	1 $\frac{1}{2}$ to 2 ins.	50 lbs.
Hegari . . . . .	April, May, June	8 to 10 lbs.	3 $\frac{1}{2}$ to 4 ft.	4 to 6 ins.	1 to 1 $\frac{1}{2}$ ins.	50 lbs.
Grass, Bermuda . . . . .	April to June—Sept.	10 to 12 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ in.	40 lbs.
Grass, Blue . . . . .	Feb. to April—Sept., Oct.	60 to 75 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	14 lbs.
Grass, Carpet . . . . .	March, April—Sept.	20 to 30 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	10 lbs.
Grass, Dallas . . . . .	March, April, May	8 to 10 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	10 lbs.
Grass, Lawn . . . . .	Feb., Mar.—Sept., Oct.	60 to 75 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	14 lbs.
Grass, Orchard . . . . .	Feb. to Apr.—Sept., Oct.	20 to 24 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	14 lbs.
Grass, Red Top, Herds . . . . .	Feb. to Apr.—Sept., Oct.	8 to 10 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	14 lbs.
Grass, Pasture . . . . .	Feb. to Apr.—Sept., Oct.	30 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	14 lbs.
Grass, Winter Rye . . . . .	Sept., Oct., Nov.	100-150 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	24 lbs.
Grohoma . . . . .	April, May, June	4 to 5 lbs.	3 $\frac{1}{2}$ to 4 ft.	8 to 10 ins.	1 to 1 $\frac{1}{2}$ ins.	50 lbs.
Lespedeza, Japan Clover . . . . .	Feb., Mar., April	1 bu.	Broadcast	Broadcast	$\frac{1}{4}$ in.	25 lbs.
Lespedeza Sericea . . . . .	April, May	20 to 30 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ in.	40 lbs.
Lespedeza Sericea, Drill . . . . .	April, May	3 to 4 lbs.	3 ft.	6 to 8 ins.	$\frac{1}{4}$ in.	40 lbs.
Millet, Hungarian . . . . .	April to August	1 to 1 $\frac{1}{4}$ bus.	Broadcast	Broadcast	$\frac{1}{2}$ in.	48 lbs.
Millet, Tenn. German . . . . .	April to August	1 to 1 $\frac{1}{2}$ bus.	Broadcast	Broadcast	$\frac{1}{2}$ in.	50 lbs.
Millet, Pearl . . . . .	May, June, July	8 to 10 lbs.	3 to 3 $\frac{1}{2}$ ft.	4 to 6 ins.	$\frac{1}{2}$ in.	48 lbs.
Millet, Japanese . . . . .	May, June, July	20 to 25 lbs.	Broadcast	Broadcast	$\frac{1}{2}$ in.	50 lbs.
Milo Maize . . . . .	May, June, July	6 to 8 lbs.	3 to 3 $\frac{1}{2}$ ft.	4 to 5 ins.	1 in.	50 lbs.
Mung Beans . . . . .	May, June, July	8 to 10 lbs.	3 to 3 $\frac{1}{2}$ ft.	2 to 4 ins.	1 in.	60 lbs.
Oats . . . . .	Feb., Mar.—Sept., Oct.	2 to 2 $\frac{1}{2}$ bus.	Broadcast	Broadcast	1 to 2 ins.	32 lbs.
Peanuts . . . . .	May, June	35 to 40 lbs.	3 to 3 $\frac{1}{2}$ ft.	10 to 12 ins.	2 ins.	22 lbs.
Peas, Stock . . . . .	May, June, July	1 $\frac{1}{2}$ to 2 bus.	Broadcast	Broadcast	2 ins.	60 lbs.
Peas, Austrian Winter . . . . .	Aug. to Nov.	30 to 35 lbs.	Broadcast	Broadcast	2 ins.	60 lbs.
Peas, Aust. Wint. Cotton rows . . . . .	Aug. to Nov.	20 to 25 lbs.	Side of row	2 to 3 ins.	2 ins.	60 lbs.
Potatoes, Irish . . . . .	Feb. to Apr.—July, Aug.	10 to 12 bus.	3 to 3 $\frac{1}{2}$ ft.	15 to 18 ins.	4 ins.	60 lbs.
Rape, Essex . . . . .	Feb. to Apr.—Aug. to Oct.	6 to 10 lbs.	2 to 3 ft.	4 to 6 ins.	$\frac{1}{2}$ in.	50 lbs.
Rye, Common . . . . .	Sept., Oct., Nov.	1 to 1 $\frac{1}{4}$ bus.	Broadcast	Broadcast	2 ins.	56 lbs.
Rye, Abruzzi . . . . .	Sept., Oct., Nov.	$\frac{3}{4}$ to 1 bu.	Broadcast	Broadcast	2 ins.	56 lbs.
Sagrain . . . . .	Apr., May, June, July	8 to 10 lbs.	3 to 3 $\frac{1}{2}$ ft.	4 to 5 ins.	1 in.	50 lbs.
Sorghum, Drill . . . . .	Apr., May, June, July	8 to 10 lbs.	3 $\frac{1}{2}$ to 4 ft.	4 to 5 ins.	1 in.	50 lbs.
Sorghum, For Hay . . . . .	Apr., May, June, July	50 to 75 lbs.	Broadcast	Broadcast	1 in.	50 lbs.
Soy Beans, Small Seed . . . . .	Apr., May, June, July	1 bu.	Broadcast	Broadcast	1 to 2 ins.	60 lbs.
Soy Beans, Drill, Small Seed . . . . .	Apr., May, June, July	1 pk.	3 to 3 $\frac{1}{2}$ ft.	4 to 5 ins.	1 to 2 ins.	60 lbs.
Soy Beans, Large Seed . . . . .	Apr., May, June, July	1 $\frac{1}{2}$ bus.	Broadcast	Broadcast	1 $\frac{1}{2}$ to 3 ins.	60 lbs.
Soy Beans, Drill, Large Seed . . . . .	Apr., May, June, July	$\frac{1}{2}$ bu.	3 $\frac{1}{2}$ to 5 ft.	4 to 6 ins.	1 $\frac{1}{2}$ to 3 ins.	60 lbs.
Sudan Grass . . . . .	Apr., May to Aug.	25 to 30 lbs.	Broadcast	Broadcast	1 in.	40 lbs.
Sunflower . . . . .	May, June	6 to 8 lbs.	3 $\frac{1}{2}$ to 4 ft.	15 to 18 ins.	1 in.	25 lbs.
Timothy . . . . .	March, April—Sept., Oct.	15 lbs.	Broadcast	Broadcast	$\frac{1}{4}$ to $\frac{1}{2}$ in.	45 lbs.
Vetch, Winter Variety . . . . .	Aug. to Nov.	20 to 25 lbs.	Broadcast	Broadcast	2 ins.	60 lbs.
Vetch in Cotton rows . . . . .	Aug. to Nov.	15 to 18 lbs.	Side of row	2 to 3 ins.	2 ins.	60 lbs.
Velvet Beans . . . . .	May, June	$\frac{1}{4}$ to $\frac{1}{2}$ bu.	4 to 5 ft.	2 to 2 $\frac{1}{2}$ ft.	3 to 4 ins.	60 lbs.
Wheat . . . . .	Sept., Oct., Nov.	5 pks.	Broadcast	Broadcast	2 ins.	60 lbs.

One acre of land contains approximately 210x210 feet or 43500 square feet.

# Russell-Heckle Presents SOUTHERN HYBRID CORN

Bred and Grown Exclusively by the Producers of  
the Famous IOWEALTH Hybrid Corn



## The Story of Southern Hybrid Corn

The most dramatic agricultural event of this generation is the development of hybrid corn. Almost unknown to the average corn grower four years ago, in 1938 fifteen million acres were planted to hybrid seed. The yield from those acres will be about 120 million bushels more than ordinary open-pollinated seed would have produced.

The research work on hybrid corn, which has put millions of dollars into the pockets of farmers throughout the corn belt, was conducted largely by research departments maintained by commercial seed companies and by the various state experiment stations. Most of this work was naturally done in the corn belt proper and accordingly the southern farmer was forced to sit back and continue to grow old-fashioned, out-of-date open-pollinated corns.

A number of years ago Dr. Stuart N. Smith, who originated the famous Ioweaith Hybrids—the largest selling hybrids in the corn belt—made a trip to the South to study the types

of corn which are being grown there and to determine the possibilities for developing hybrids for southern conditions. Dr. Smith returned to his corn breeding station at Ames, Iowa, fired with the determination to develop hybrids for the southern farmer. He immediately made contact with several experimentally minded men throughout the South and asked them to co-operate with him in testing out hybrids to determine whether or not they were suitable for their conditions. He also accumulated seed of all the southern varieties of open-pollinated corn and placed them in his research fields and began inbreeding on them to develop pure inbred lines which could be used in the future for incorporating into new hybrids for the South.

The results of that work, over a period of years, have culminated in the introduction this year of a series of hybrids especially adapted to the South. These hybrids are known as Southern Hybrids.

## How Southern Hybrids are Produced

Years of careful research are required before any hybrid seed can be produced. The work of breeding Southern Hybrids began years ago.

### Inbreeding Was the First Step

The basis of hybrid corn breeding is "selfing," which is the closest kind of inbreeding. The breeder starts with a good ear of corn from some standard, productive variety. He plants the ear and covers the shoots with a paper bag before the silks are exposed. When the tassels start to shed their pollen the silks are carefully hand-fertilized with pollen from the same plant, and then kept covered so that no other pollen can reach them. (Each kernel on an ear of corn is the result of the union of a pollen grain from the tassel with an ovary at the base of the silk.)

The same process is repeated year after year. The second year plants decrease rapidly in size and vigor as inbreeding continues, but the resulting plants also become more uniform. After five to seven years of "selfing," the characters that remain are definitely fixed. Because it is possible to mate a corn plant to itself, as much has been accomplished in five generations as could have



been done in seventeen generations of brother-sister mating.

These finished inbreds, which thereafter can be grown from year to year without change, are the standardized parts which the hybrid corn breeder is now prepared to put together.

### Inbreds Are Not Much to Look At

To the practical corn grower these inbreds do not look like much. They are small and puny, nothing to brag about as corn; but they are no longer mongrels like the open-pollinated strain from which they started. They are purebreds.

This is a hard point to make clear. Sometimes farmers will ask, "How long will it take for an inbred to run out?" The answer is that it never runs out. The exciting thing about an inbred is that it does not change at all after it has been established.

All of this inbred development has taken many years of work on the part of the breeders of Southern Hybrid Corn. Thousands of inbreds have "fallen by the wayside" for every one that has been kept.

# Making Southern Hybrids Out of Inbreds

The next step is to cross these inbreds. The result is as astonishing as touching a match to gunpowder. For some reason that scientists have not yet fully explained, when one puny little inbred is mated to another the offspring grown from that seed is astoundingly strong, large and vigorous. Something happens when the germ plasms from two different purebred strains are brought together that produces a degree of vigor which no one has ever been able to secure in any other way.

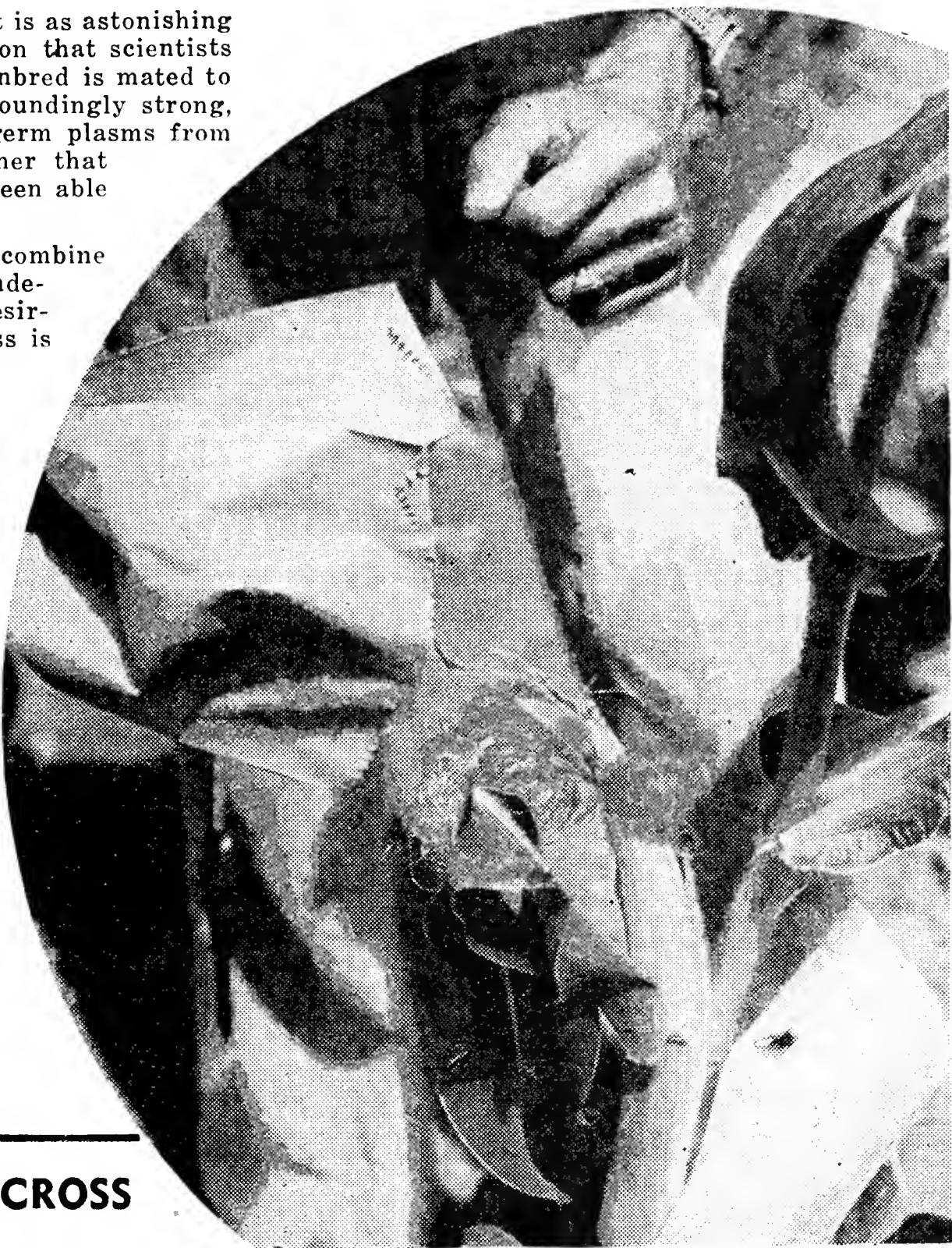
Something else happens, too. The offspring may combine the desirable characters of both parents, with the undesirable characters submerged; or some of the undesirable characters may be so prominent that the cross is of no value. Some crosses "nick." Some don't.

So one hybrid is crossed with another, then the seed tested in the field until the breeder knows which crosses are good and which ones are not.

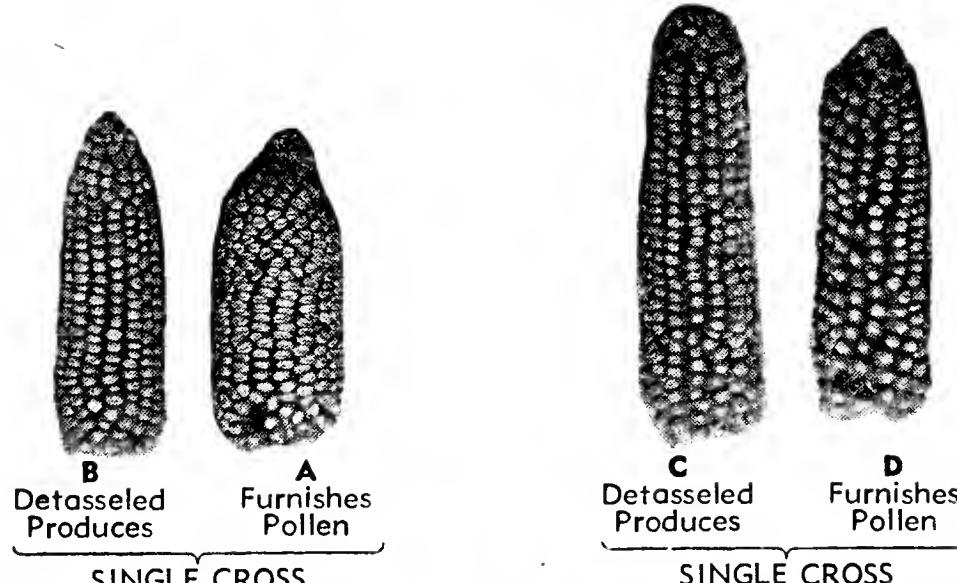
When one inbred is crossed with another it is known as a single cross. Until more vigorous and high-yielding inbreds are developed, the yield from many hybrids is so small that the seed is very expensive.

So the corn breeder takes two single crosses, which tests have shown to be good, and crosses them. Again some of these double crosses, which are a combination of four inbred parents, are discarded because of some undesirable features. But by the tedious process of trial and error the breeder finally gets a corn plant which combines yielding ability, strong roots, stiff stalk and high quality ear with that mysterious vigor which results from hybridization.

Then he has a useful hybrid, ready to be produced on a large scale and sold as commercial hybrid seed. And he can always be sure of giving his customers exactly the same thing, because the same combination of inbreds crossed in the same way will always give the same result.



## PRODUCING A FOUR-WAY CROSS Pure Inbred Strains



Inbreeding or "selfing" is accomplished by dusting the pollen of a corn plant on its own silks

After the inbred recipe is established, three more years are required to produce Southern Hybrid seed commercially. The work of inbreeding and "selfing" and the production of southern hybrids on a small scale is done all in one field by controlling the pollination with silk and tassel bags.

To produce southern hybrids on a large scale the inbreds are first brought up to a commercial scale by planting in isolated blocks a long distance from other corns; then the two inbreds which are to comprise each single cross are planted in an isolated field in such a manner that the entire field is planted in a ratio of one row of male plants to three or four rows of female plants. Just before the silks emerge the tassels—which are the male portion of the plant—are removed from the female rows. The silks of those rows therefore receive pollen only from the male row which still carries its tassels. Thus a cross is effected between the two kinds of corn. As before stated, this work of producing single crosses must be carried on in different fields as only one single cross can be produced in any given field. The following year the two single crosses are crossed together and the seed is again saved from the female rows. It is this seed which is brought in, dried, carefully graded and processed to be used later for planting.



View of a Large Seed Production Field of Southern Hybrid No. 61

## Southern Hybrids are Produced on a Field Scale by Detasseling

### Why Seed Should Not Be Saved from Your Corn Crop Produced from Southern Hybrid Seed

There is one thing about hybrid seed corn that many farmers find it difficult to understand because it runs counter to established practice; namely, why it is not practical to select and plant seed from a fine field grown from hybrid seed. The answer, according to Joe Robinson of the Iowa Corn and Small Grain Growers Association, is that the yield will drop from 10 to 20 per cent the first year.

It is easy to see why. Your hybrid seed corn is a mixture of four inbreds. In the double cross that you plant is the vigor and the relative uniformity secured by crossing. But in the next generation, if you take seed corn from that field, your uniform, vigorous corn begins to break up into different strains.

Instead of the corn you plant in 1940 looking like the hybrid corn produced in 1939 from purchased seed, part of it may look like one of its grandsires, an inbred with poor stalk but high yield; another part may look like another grandsire, the inbred that had vigor but no particular yield-

### It Makes No Difference Where the Seed of Any Specific Hybrid Is Grown

ing power, and small ears. The field will be uneven, the weak points of the inbred ancestors will come to the surface and the production will be low.

Another thing that farmers have difficulty in understanding is why hybrid seed will produce well a long distance from where it was produced. In the old open-pollinated days farmers were told not to buy seed grown outside their own county. Good advice, too, because that was mongrel corn that was good only because it had been selected over the years to fit a certain locality.

But hybrid seed is a definite combination of characters. If one of those characters is drought-resistance the corn will resist drought in Mississippi even though the seed was grown in Illinois. If one of those characters is early maturity it will get ripe early in Tennessee even though the seed was grown in Mississippi or Louisiana.

The important thing in hybrid corn is not where it was grown, but what its characteristics are.

## What Southern Hybrids Will Do

Southern Hybrids are bred to yield more corn per acre, to stand up better, and to stand more drought than open-pollinated corn. Any one of these qualities is well worth the price of the seed. In 1938 the breeders of Southern Hybrid corn conducted scientific yield tests to determine the correct hybrids to be used for various soil types in the South. Some of these results are shown in the table below:

### Report of Test Plot on Delta Soil Conducted at Vicksburg, Mississippi

Variety:	Bu. per acre
Southern Hybrid 61 (110-115 day maturity)...	75.0
Southern Hybrid 63 (105 day maturity)...	69.5
Open-Pollinated Paymaster .....	59.9
Open-Pollinated Mosby's Prolific .....	54.1
Open-Pollinated Watley's Prolific .....	43.4

This test demonstrated beautifully the ability of Southern Hybrids to stand drought. The test plot had practically no rain from the time it was planted until it was harvested. In studying this report one must bear in mind the fact that Southern Hybrids, under ideal conditions, are capable of yielding well over 100 bushels of corn per acre. The purpose of this report is to show the difference in yielding ability between Southern Hybrids and open-pollinated corns. Yields per acre were calculated on the basis of dry, shelled corn.

# Two Southern Hybrids are Now Available

## For Delta Soils

### Southern Hybrid 61

This high yielding hybrid is especially adapted to Mississippi river delta soils. (See yield test report on page 4.) It matures in from 110 to 115 days, stands up well and produces a large ear. The plants are very dark green and are heat- and wind-resistant. It is an ideal corn in the delta for general purposes.

Southern Hybrids 61 and 63 are both yellow dent corns. So far no white Southern Hybrids have been developed which are suitable. The breeders of Southern Hybrid Corn are working on a series of white hybrids and will have them ready to release within a few years.

## For Upland Soils

### Southern Hybrid 63

This is a large, two-eared hybrid well adapted to upland soils. It will outyield Hastings Prolific and Paymaster from 8 to 13 bushels per acre. A good grain corn for general purposes and early feed on upland soils.

## This Picture Proves the "Standability" of Southern Hybrids



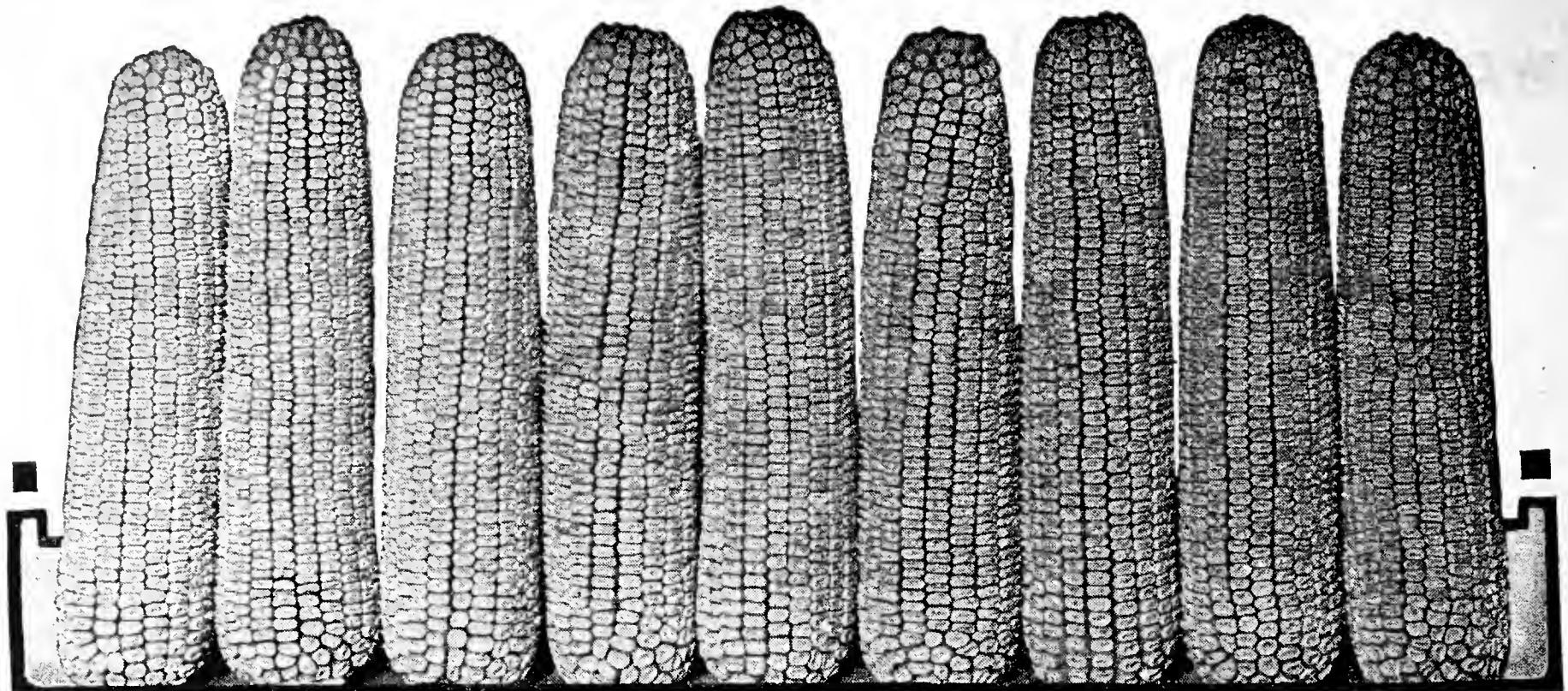
This picture demonstrates the difference in standing ability between Southern Hybrid 61 and open-pollinated corn. The picture was taken in the test plot at Vicksburg, Mississippi.

## Prices on Southern Hybrids

### Quantity

	Not Postpaid	prepaid
1 gallon (enough to plant 1 acre) .....	\$1.50	\$1.25
1 peck .....		2.25
1/2 bushel .....		4.00
1 bushel or more, not prepaid, per bushel .....		7.00

Stock limited.



R.-H. Co.'s Top Notch Mosby's Prolific

## Russell-Heckle's Field Seed Corn

### R.H. Co.'s Early Surprise

This splendid early corn is already well-known. You can plant it early and gather it early. Early Surprise is strictly a 90-day corn, dependable because it matures before the summer droughts. The white grains are medium size. Ears snow-white, about 8 inches long. The grains are set on a medium white cob; stalks medium tall and produce average two good ears. Our stock of Early Surprise corn is genuine, grown for us by the introducer. Be careful—don't be misled and plant Early Surprise of uncertain origin.

Postpaid, 5 lbs., 70c. Not prepaid, 5 lbs., 50c. Quantity prices are given on our Green Ink List.

### Top Notch Hastings' Prolific

It will make 2 ears to the stalk on average land, and if planted 24 to 30 inches apart in the row on good strong land, 4 to 6 ears to the stalk can be had. The ears are well filled at both ends; the cob is small; the shuck is heavy and covers the ear tightly, protecting it from birds and insects. Matures in 120 to 130 days.

### Top Notch North Carolina Prolific

A beautiful white prolific corn. Matures in about 115 days. Well adapted to both field and table purposes, just flinty enough for milling the most beautiful meal. Some of the largest yields of corn ever made in the South have been made with this prolific corn.

### Top Notch Paymaster

We endorse this corn as one of the most satisfactory and heavy yielding corns for Southern farms. Bred in Tennessee, its excellence reached the point where 75 percent of all the corn planted in the State of Tennessee is reported to be Paymaster. Paymaster is now planted all over the South. White grain, cob bright red; mostly 2 ears to stalk, ears well filled to end. A tall variety making good ensilage, maturing 100 to 115 days.

### Top Notch Tennessee White Red Cob

An extra large field corn; grains long, white, broad and evenly lined on large red cob. The ears of this sort will run from 9 to 12 inches long and have from 18 to 20 rows. The stalks grow from 8 to 12 feet high, are broad, strong and short-jointed. It makes one of our best ensilage corns. Matures in 120 days.

### Top Notch Hickory King

The white grain is so wide and deep, and the cob so small that often a single grain will cover the end of a broken cob. It has been called the Poor Man's Corn because it can be depended upon to produce a crop on poor, thin land. On good land it bears 2 ears to the stalk.

### Top Notch Brand Corns

Selected from high-yielding fields of well-matured crops. Every ear hand selected, hand nubbed and hand tipped before shelling, then graded and cleaned. All this selection and handling is done by men who know seed corn. Result—satisfied purchasers and improved crops.

Top Notch Brand seed corns cost a trifle more than ordinary machine-graded corns, and are worth it. If the difference were \$1.00 per bushel, that would be just 12c to 15c per acre additional cost. An additional yield of one peck per acre from Top Notch would equalize that. We believe you can expect 10 to 30 extra bushels per acre with Top Notch.

Seed corn produces best results when planted under climatic and soil conditions similar to those under which it was originally produced. Our seed corn is produced in localities where each variety is at its best. With corn as with other crops no one variety has all the best qualities. No one variety is best suited for all soils and conditions. Plant corn suited to your locality. Southern varieties usually make best yields in the South, but for those who want quicker action we are prepared to supply the best Northern and Western varieties.

### Top Notch Mosby's Prolific

One of the most prolific corns in existence; the stalks are tall, bearing 2 to 5 fine ears. The grains are long, set close to a small white cob, very uniform in shape, well filled. Another important feature of this fine corn is its abundant foliage, which renders it superior to most sorts for ensilage purposes. This is a southern corn, and is recommended for general crop. It is pearly white, small cob, deep full grain, neither too hard nor too soft. Matures in 110 to 120 days.

### Top Notch St. Charles White Red Cob

The ears are large, both in length and circumference. The grains are deep and firmly set in a medium large red cob. Matures in about 100 days.

### Top Notch Silver Mine

Ears measure from 10 to 12 inches in length. They are very uniform in size and shape, 16 to 20 straight rows of deep, pure white kernels on a small white cob. Matures in 100 days.

### Top Notch White Dent

White grains, slightly dented, medium size white cob, ears good length, well filled. Maturity 90 days. An old standby for late planting.

### Top Notch Early Snowflake

Large size, very early in maturing grains snow white. Ears are 8 to 10 inches in length—a dependable variety for early use.

1½ CENTS AN ACRE FOR  
**SEMESAN JR.**  
REG. U. S. PAT. OFF.  
RETURNS 2 TO 12 BUS. MORE

Is used as a dust disinfectant to control the ear, root and stalk rots of corn. In tests conducted in both Illinois and Iowa by the Federal and State governments, SEMESAN JR. increased yields from diseased seed by varying amounts up to 38 percent.

NEW IMPROVED SEMESAN JR. is applied only as a dust, at the rate of 3 ounces per bushel of seed. The cost therefore is only about 5c an acre of field corn. Send for SEMESAN JR. Corn Pamphlet with full directions.

Price: 2-oz. pkg., treats 1 bu. seed corn, 15c; 4-oz. tin, 30c; 1-lb. tin, 75c; 5-lb. tin, \$3.25. Postpaid, 20c, 35c, 85c, and \$3.45.

FOR QUANTITY PRICES ON SEED CORN SEE GREEN INK LIST ENCLOSED

# Russell-Heckle's Celebrated Harpeth River Seed Corns Tennessee Bred and Grown

We are proud of our Harpeth River Seed Corns. They are selected and handled right; they are what seed corns should be, and you will agree when you see them. Each bag is from hand selected ears, hand-nubbed and hand-tipped before shelling, then graded and cleaned, just as we do with our famous Top Notch brand corns.

Harpeth River seed corns established a reputation 30 years ago in the days of the late Col. Jo Ullathorne, who first introduced them. They were his pride then—they are ours now.

Harpeth River Seed corns cost a trifle more than ordinary commercial seed corns, and are worth it. If the difference in cost were \$1.00 per bushel, that would be just 12c to 15c additional cost per acre for seed; you should gather 10 to 30 extra bushels per acre with Harpeth River corns, for "like produces like."

Every bag is plainly printed, "Harpeth River Seed Corn." Buy only the genuine. Obtainable in the following varieties (see descriptions under Top Notch Corns):

Harpeth River Champion White Dent.  
Harpeth River Early Yellow Dent.  
Harpeth River Large Golden Dent.  
Harpeth River Hickory King.  
Harpeth River Jarvis Golden Prolific.  
Harpeth River Paymaster.  
Harpeth River Tennessee Red Cob.  
Harpeth River Hastings Prolific.  
Harpeth River Mosby Prolific.

Prices on above are given on our green ink list.



## R. H. Co.'s Golden Surprise

A large Yellow Corn for our Southern farmers. Ears 8 1/2 to 9 1/2 inches long, usually 14 to 16 rows of well-dented grains, grows a stalk 7 to 8 feet high and matures in 90 to 100 days.

Among its excellent qualities are the grains, are very narrow and deep, of a very bright golden yellow color and grains are medium hard, not at all flinty, just hard enough to stand the rainy weather conditions to keep ears from rotting.

Golden Surprise produces well on most any soil—good upland as well as low moist locations. It is a good yielding variety. Each stalk produces 2 good large ears, shells easily, is also often used for an ensilage crop.

## Top Notch Jarvis Golden Prolific

This is one of the finest corns for this section on our list. A natural drought-resisting variety, one of the few varieties of Yellow Corn that produces more than 1 ear. It is hardy enough to withstand any kind of weather in the fall. Crops have been left in the field until early spring and then came out good, sound corn.

A native southern Yellow Corn, carefully bred, and one that bears two good ears to the stalk. The stalk is rather dwarf, 6 to 8 feet high, and does not fall down in stormy weather. Grains are bright golden yellow; ears are firm and solid, about 7 to 10 inches long. The grain is medium in size. This is a very productive and desirable variety, and is drought resistant.

Our seed is all carefully selected. It will please you.

## Top Notch Early Yellow Dent

Yellow grains, medium size red cob, ears good length, about 90-day maturity. One of the popular varieties, for late planting particularly.

## Top Notch Gold Mine

A dandy big eared Yellow Corn that succeeds well in this section. Grains medium long, bright yellow and set on medium to large size ear about 8 inches in length. Does well on good uplands. Matures in about 105 days.

## Top Notch Large Golden Dent

Large golden grains, big ear, red cob, medium size. Maturity about 100 days. Extremely popular everywhere.

## Top Notch Mexican June Corn

Our native grown selected strain. This dependable variety, largely planted late in the spring throughout the entire Cotton Belt, originally came from Mexico. It is largely used for planting after oats and wheat, and can be planted as late as August 15th with good results. The stalks are usually short, although early plantings make stalks 12 to 15 feet high, leaves 4 to 6 feet long. The roots run deep and spread, so that it is a splendid drought resister. Ears 8 to 9 inches long, grains short to medium, cobs medium in size, and while usually white, occasionally you'll find a red cob with white and some blue grains. This apparent mixture of color is peculiar to many varieties of Mexican Corn.

## Top Notch Tait's Early White Dent

One of the few early 90-day White Dent varieties with a small cob; makes large beautiful ears, and the smooth dent grains are pure white. It is ideal for early feed or roasting ears. Prices on Green Ink List.

## Pop Corn

Culture: 1 ounce to 40 feet of row, 4 pounds per acre. After the ground is warm, sow in rows 3 feet apart. Always sow more than 1 row so that the ears will be fully pollinated.

### SOUTH AMERICAN YELLOW DYNAMITE.

This new Pop Corn is beautiful creamy yellow when popped, very large, crisp and delicious. Will be greatly relished by every member of the family.

### BABY RICE or JAPANESE HULLESS.

Ears from 6 to 7 inches long with long rice-colored grains.

We can supply the above varieties. Prices uniform. 1 lb., 25c, postpaid. Not prepaid, 1b., 15c.

## Cro-Tox Bird and Crow Repeller

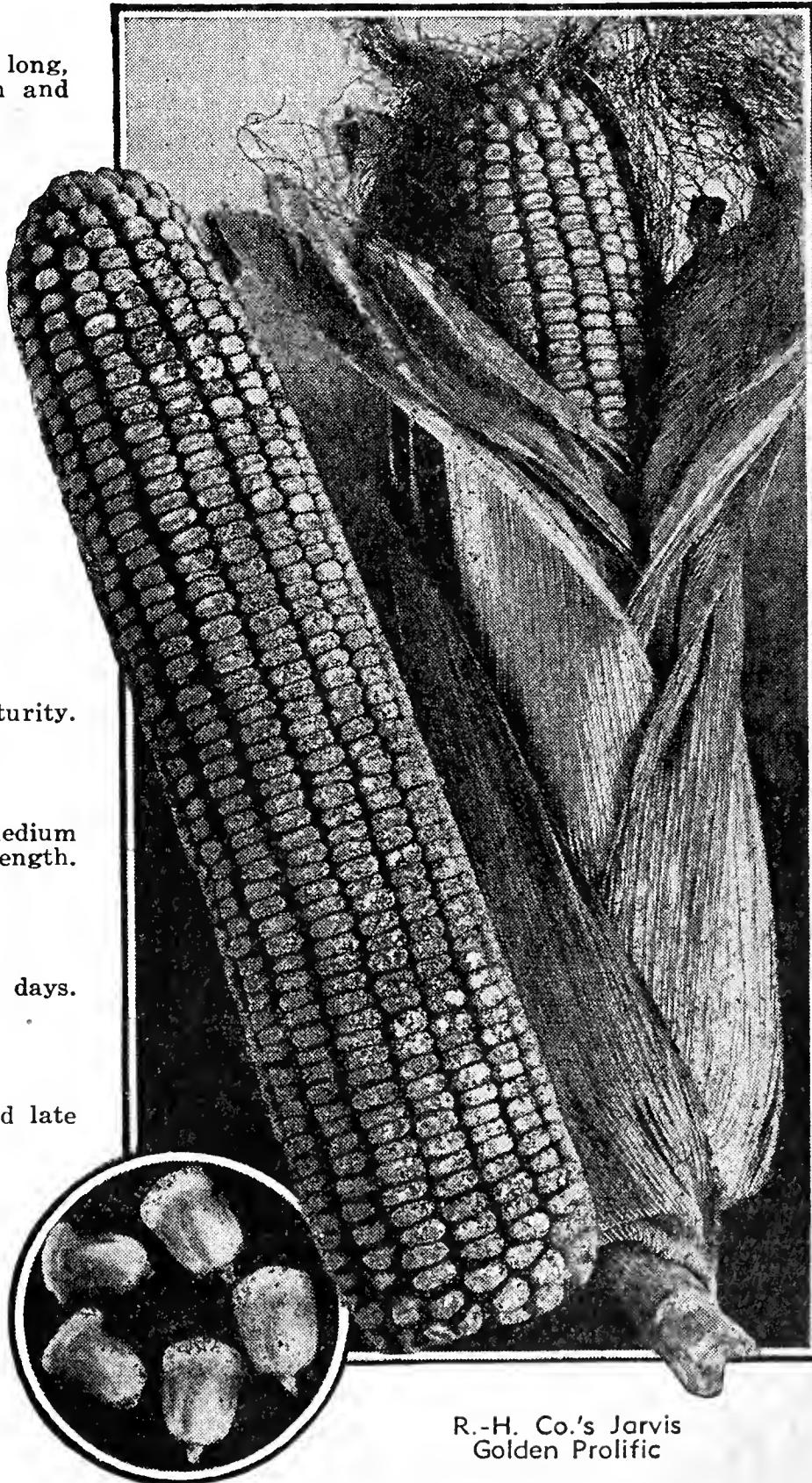
A clear tar-free liquid that will not clog or gum the planter. Corn seed treated with tarless crow repeller, keeps blackbirds, crows, doves, squirrels and moles from molesting it; also prevents seed rot, non-poisonous and non-injurious to the seed, saves seed and replanting. 1 bu. size, 60c; 4-bu. size, \$1.50. Postpaid, 70c and \$1.65.

### HOW TO MEASURE CORN IN THE CRIB

This will apply to crib of any kind. Three cubic feet of sound, dry unshucked corn in the ear will make a bushel.

To get the quantity of shelled corn in a crib of corn in the ear, measure the length, breadth and height of the crib inside of the rail, multiply the length by the breadth and then multiply the product of these two dimensions by the height; then divide the product by three and you will have the number of bushels in the crib.

2 1/2 cubic feet of corn without shucks, equal one bushel of ear corn.



R.-H. Co.'s Jarvis  
Golden Prolific

# Foundation Planting Seed

The Delta & Pine Land Co., Scott, Miss., are probably the best known planters in the South. Their business is primarily the production of cotton for the American market, rather than the breeding of planting seed. Growing cotton

on such an enormous scale, it was a matter of business safety to establish and maintain its own experimental department, in charge of expert agronomists for three primary purposes:

- A—To determine the most profitable variety of cotton to be planted.
- B—To produce, from year to year, better and more profitable varieties.
- C—To determine the most profitable and economical method of farming, including fertilization, time of planting, spacing, methods of cultivation, methods of combating insect activities, etc.

The planting operations of the company for the past 25 years have been directed by Dr. J. W. Fox, internationally known agriculturist. E. C. Ewing, who organized the cotton-breeding work of the Mississippi Experiment Station beginning in 1911, has been in charge of the Company's experimental work for 23 years. He has developed a number of varieties of cotton in that period, including D. & P. L. (Deltapine) 11-A, to which variety the company now plants its entire acreage.

After the flood of 1927 the company normally planted approximately 17,000 acres to cotton. Since the application of the Federal Cotton program the Company has reduced its cotton acreage accordingly and their 1938 acreage table shows 8,693 acres in D. P. L. (Deltapine) 11-A. The Company has around 200 acres in experimental work. When a certain variety shows distinct advantages over other known varieties the Company adopts the new variety and tests it out by planting a considerable acreage. When, under field conditions, the new variety has demonstrated its merits, they discard all other varieties and plant their entire property to the improved variety.

The Company sells no seed until they are so convinced of the merits of the seed that they plant their entire acreage in the newly developed variety. And that's the story of D. & P. L. (Deltapine) 11-A—it has proven the most profitable cotton plant among all those tested for years, and so no other cotton is planted by them. When and if they find a cotton that will return greater revenue, they will adopt it. Their experimental work goes on continually.

As the result of inclement weather which obtained in September, 1937, seed from the 1937 crop showed so low a germination test that the Company declined to sell planting seed from that crop. Persons desiring pure D. & P. L. (Deltapine) 11-A are warned by the Company that Foundation first year D. & P. L. (Deltapine) 11-A seed can only be purchased from the Delta & Pine Land Company or from duly authorized and licensed dealers, of whom Russell-Heckle Seed Company are one.

All seed are de-linted, and chemically treated with Ceresan, which means they will go much further in planting and give much improved stands. All seed are sacked in 100-lb. sealed bags, bearing the Company pine tree trade mark. All seed grown on the Delta & Pine Land Company properties at Scott and Deeson, Miss.

D. & P. L. (Deltapine) 11-A is the result of cotton breeding work begun by Mr. Ewing, 25 years ago, and is the most productive variety the Company has ever planted. They began growing this strain in 1936 and for two years, 1936 and 1937, have produced an average yield of 647 pounds per acre on an average acreage of 10,650 acres. When this was written, October, 1938, the 1938 crop was not all harvested but the yield is estimated to be 625 pounds of lint per acre average on 8,693.6 acres. Such a record speaks for itself.

D. & P. L. (Deltapine) 11-A combines an unusually high lint percentage with a good staple. In the Delta the lint percentage runs 38% to 39%; outside the Delta 39% to 42%. In the Delta the staple is 1-1/16 to 1-3/32 inches long, and in the hills the staple runs from 1 inch to 1-1/16 inches. The bolls are medium size but fewer bolls are required to make a pound than from many other varieties having larger bolls. It is unusually easily picked, but also fairly storm resistant.

In Mississippi, its home state, D. & P. L. cottons have had wide usage for years, particularly the Deltapine 11-A, the latest strain. The Company states that there are 156 one-variety communities in Mississippi of which they have record, and 93% of them have elected to grow D. & P. L. cotton.

In Alabama, Arkansas, Louisiana, Texas, Georgia, South Carolina, Missouri—covering most of the entire South, Deltapine cottons have been making a name for themselves and profitable crops for planters for years.

## AVERAGE LINT YIELDS OF COTTON VARIETIES TESTED BY MISSISSIPPI EXPERIMENT STATIONS FOR 5-YEAR OR 4-YEAR PERIODS

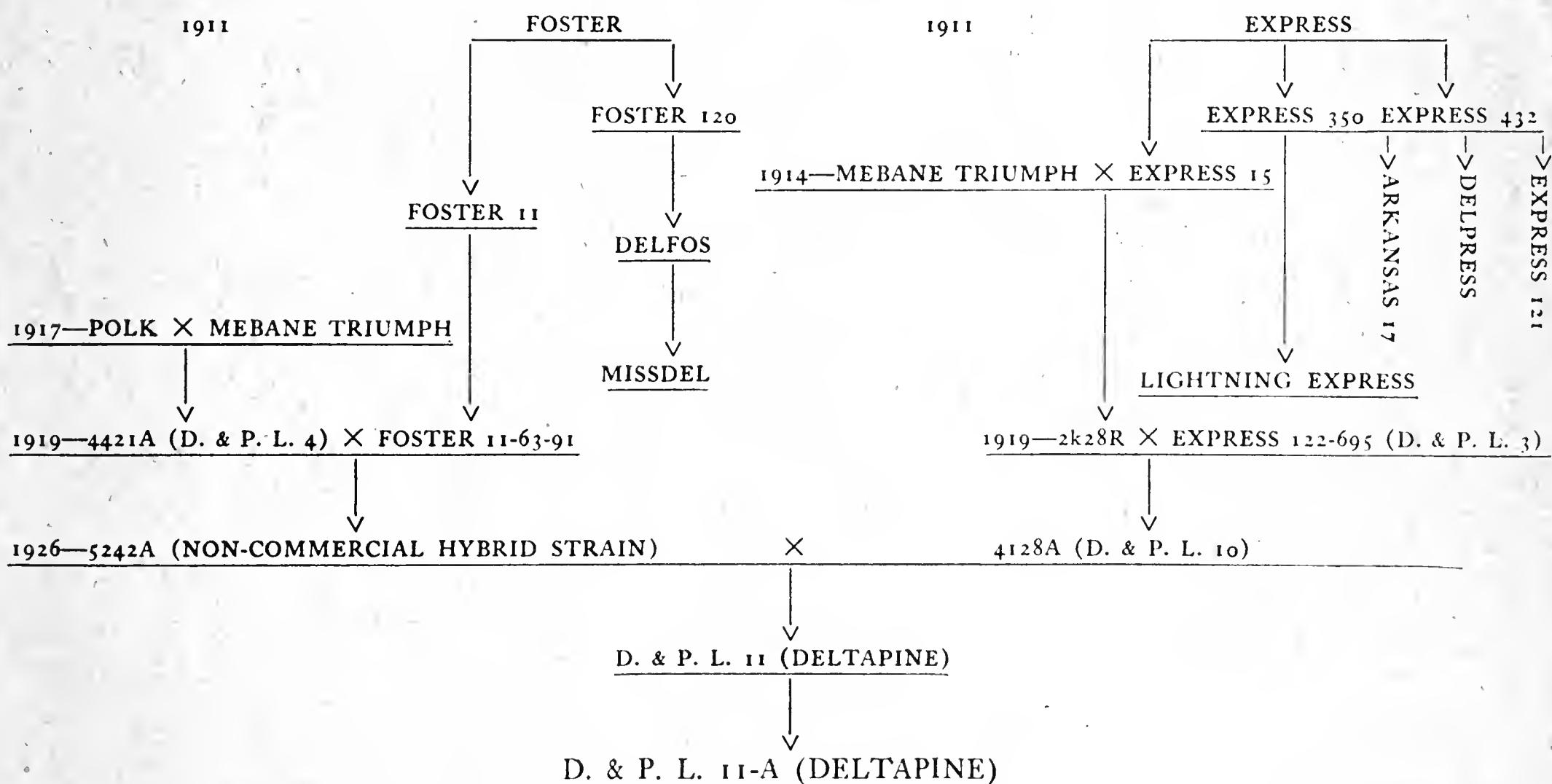
	Holly Springs			Raymond			Natchez	Stoneville	All Stations	Lint and Seed Lbs.	Average Value for Period of Seed Dollars
	State College	Valley Tests	Hill Tests	Valley Land 4 years	Hill Land	Poplarville 4 years					
Deltapine A (D. & P. L. 11-A)	529.1	737.9	411.7	548.9	458.6	382.7	704.0	555.1	541	75.11	
Miller	505.0	654.1	369.9	524.0	413.2	354.8	595.8	510.3	491	67.46	
Stoneville	478.2	702.3	398.9	518.7	451.9	393.0	587.5	491.5	502	69.47	
Cleveland 54	476.8	637.0	373.2	502.6	409.0	370.4	619.0	476.1	483	64.90	
Stoneville 5	476.4	705.7	393.9	547.3	455.5	408.6	598.7	503.7	511	69.61	
Acala 891	476.1	683.3	416.2	529.3	425.7	335.3	564.6	506.6	492	66.43	
Washington (Delfos 719)	472.9	667.1	403.1	494.4	416.2	334.9	494.5	488.3	472	68.36	
Cleveland 884	471.5	....	....	428.4	355.4	....	....	431.7	...	....	
Stoneville 2	470.0	671.2	404.9	519.4	433.1	369.5	665.7	483.7	522	73.72	
Delfos 531-B	460.0	654.0	342.8	443.7	399.1	315.7	492.9	491.7	450	72.54	
Half & Half	447.8	745.4	461.9	458.8	479.4	420.7	478.2	470.9	495	56.08	
Rowden 7017	445.1	621.8	367.5	496.2	398.0	311.1	530.8	512.1	460	63.04	
Delfos 6	424.7	627.2	336.7	434.1	371.9	307.2	508.8	504.5	439	66.66	
Lightning Express	408.5	554.4	317.4	456.1	329.3	302.8	515.2	440.3	416	65.64	
Farm Relief	407.5	....	....	441.4	401.4	347.9	486.6	436.7	...	....	
Missdel 7	400.3	534.5	332.8	473.8	384.7	298.4	485.1	423.1	417	66.20	



D. & P. L. (Deltapine) 11-A contains the "blood" of several varieties such as Mebane-Triumph, Express, Foster (or Delfos) and of Polk, each of which possessed certain valuable characters, but was handicapped by certain other undesirable qualities. It is a well-known fact that certain characters, much desired in cotton, are antagonistic to each other. For example, long staple and productive-

ness are opposed to each other, and long staple and high lint percentage are highly antagonistic. Through hybridization we have succeeded somewhat in breaking down some of these antagonisms. The present variety has been built up to comprise, as it does, as many desirable and as few undesirable qualities as we could combine in a single variety. Note its pedigree in the following diagram.

DIAGRAM OF THE PEDIGREE OF DELTAPINE (D. & P. L. 11 AND D. & P. L. 11-A)



### Only One Variety This Year

For years we have stocked numerous varieties of cottonseed, offering our customers choice of 8 or 10 different cottons. Cotton prices are so low this year that it seemed to us there would be less demand for so many different cottons. On the other hand, it is unquestionably true that D. & P. L. 11-A is better known in the Memphis territory, and more planted than any other variety of cotton. Further there are any number of one-variety communities over the South that have adopted Deltapine 11-A as the only cotton to plant.

Therefore, we are this year cataloging only D. & P. L. (Deltapine) 11-A foundation cottonseed, bred and grown by Delta & Pine Land Company, Scott, Miss. We are sure that our customers will be de-

lighted to know that we are exclusive distributors for Tennessee, Arkansas, Oklahoma, Missouri, Kentucky and Illinois. As a matter of fact, we have sold before November 15th, over 21,000 bags of it, containing 100 lbs. each.

We have been handling cottonseed for 25 years and in all that period we recall no cotton that has enjoyed the widespread popularity and success that Delta & Pine Land Company cottons have had throughout that period. Write for complete booklet, D. & P. L. Deltapine foundation cotton seed.

Prices: Current prices on D. & P. L. (Deltapine) 11-A foundation cottonseed are given on our Green Ink List enclosed.

# Russell-Heckle's Top Notch Field Seeds

The most vital need of those who depend for their living on the products of the soil is pure seed, not mixed with noxious weed seed, and of high germinating quality. Our Top Notch brand was originated to designate seed stocks filling just that need, and their dependability is responsible for their popularity.



## R.-H. Co.'s ALFALFA

Alfalfa deserves to rank first among the legumes. It furnishes more green forage, more pasture and more dry hay per acre than any known variety of hay or grass. Pound for pound of dry feeding matter, it is worth more than any other forage—and is relished by stock, cows, sheep and hogs.

As a soil builder, there is nothing better—extremely deep rooted, it withstands drought better than most other legumes. In the South, Alfalfa usually lasts 4 or 5 years without reseeding, sometimes longer, depending on presence of weeds, weather conditions, etc. Do not pasture so closely as to injure the crown or new shoots.

### Getting a Start

Alfalfa requires a sweet soil—if your soil is acid, apply some lime ahead of seeding, the fall previous to seeding if possible, at least 3 tons ground limestone per acre broadcast and harrow this in. It will not grow on acid soil. Sow on good loam or clay or medium sandy soils, provided they are well drained to a depth of at least 4 feet. Avoid soil with a "hard-pan" close to surface, for it prevents drainage. Avoid low spots where water stagnates or freezes—Alfalfa cannot stand "wet feet." Sow on a bed free of weeds—if possible, sow on land which has been in some cultivated crop. Plow previous fall if possible, or at least several weeks in advance of seeding. Then disc and harrow frequently to set the seed bed—a firm seed bed is desirable as it conserves moisture.

## R.-H. Co.'s Top Notch Oklahoma Alfalfa

The United States Department of Agriculture says that a good grade of Kansas Common type of Alfalfa is standard for the South. This type of seed is produced, in Kansas and Northern Oklahoma, where they have severely cold weather in winters and extremely hot weather in summer, with dry periods and wet spells. Much more unfavorable conditions than our territory has to bear. Repeated tests at our Experiment Stations and actual field results show the accuracy of the department's statement. We have sold hundreds of thousands of pounds all over the South where it has given splendid results.

Our seed this spring are the cream of the crop in Kansas and Northern Oklahoma, bought by our own representatives who spent almost two months in the growing fields last fall when crops were harvested.

## R.-H. Co.'s Top Notch Hardy Northwestern Alfalfa

The Northwestern states, like Idaho, Nebraska, produce a very hardy type of Alfalfa, due, naturally, to the severely cold winters that Alfalfa must weather there each year. Our Top Notch Northwestern Seed represents our choice of the stocks produced there, based on purity and growth.

### Dakota—12 Alfalfa

Originated in the Dakotas to meet the terribly severe weather conditions prevalent there, where the temperature goes down to 15 or 20 degrees below zero in Winter, with extremely hot Summers in the mountain valleys. This seed has built up a strong resistance to Winter killing, an ability to produce a strong, vigorous, very productive crop of Alfalfa under the most unfavorable conditions.

### Why Inoculate

Inoculation of your seed before planting will give you a much stronger and quicker growth, producing a greater tonnage of hay. The cost of inoculation per acre is so small that the increased yield will repay it many times.

## Price List of Inoculations

### NITRAGIN CULTURE

#### For Alfalfa, Red, Alsike, and Other Clovers

1/2 bu. size, each	\$0.30
1 bu. size, each	.50
2 1/2 bu. size, each	1.00

#### For LESPEDEZA

1 bu. size, each	\$0.80
2 bu. size, each	.50
5 bu. size, each	1.00

# Russell-Heckle's CLOVER SEED



Red Clover

## Red Clover

(Biennial)

As a soil builder, Red Clover is equal to any; in feeding value, it ranks next to Alfalfa. Should be on every Southern farm that will grow it. Requires a sweet soil, well drained—medium fertile to rich. Plant alone for hay or with Timothy. Fine in pastures, and a splendid soil builder. Sow in March, April, September, October. Be sure to inoculate with Nitragin, if you want best results. Prepare seed bed thoroughly, discing and harrowing, sow seed and roll in with roller or cultipacker; have ground free of weeds.

## Alsike Clover

(Biennial)

Somewhat smaller seed than Red Clover, 6 to 8 pounds per acre enough, about equal to Red Clover hay in feed value, hay a little finer and preferred by stock. Rarely winter kills. Will thrive on poorer soil, and does fine on damp moist soils. Does not require lime, or at least very little. Grown and handled throughout same as Red Clover.

## White Blossom Sweet Clover

(Biennial Melilotus Alba)

Good for forage pasture and soil improvement—will grow on almost any Southern soil (even very sandy soils) that contain lime, thriving on land too poor to grow Red Clover or Alfalfa. Resembles Alfalfa when young but grows much larger, almost same rank in feeding value; both as hay and green foliage. Stock seldom relish it at first, but when forced to eat it, soon develop a decided preference for it. Cut it before it reaches the blossom stage—too woody after that. Has a deep-spreading, heavy root system making it a big Nitrogen gatherer and soil improver, provided it is inoculated. Pasture from time plants are 6 inches high—the more stock you turn on it the better, for close grazing encourages its growth, and when tall becomes coarse and unpalatable. Being a biennial, will disappear unless allowed to make seed second fall. Inoculate seed with Nitragin.

## Yellow Blossom Sweet Clover

(Melilotus Officinalis)

The Yellow Blossom type is very similar to that of the White Blossom. For those who wish to use Sweet Clover for pasture, hay and bee purposes, we would advise the use of the Yellow Blossom type.

## White Dutch Clover

(Perennial)

Creeping in type, not adapted for hay but excellent in lawns and should be in all pastures. Much relished by stock, and high in protein. Does not cause bloating, comes out very early in spring without interfering with other grasses, thrives under trampling. Sow 1 or 2 lbs. per acre in your pasture mixture.

## Mammoth or Sapling Clover

Very much like the common Red Clover but larger, heavier and later. Recommended for thin soils. Sow 10 to 12 pounds to the acre.

## Crimson Clover

(Annual)

Sow 12 to 15 pounds in August and September in South, cut for hay in early bloom stage next spring, which is best time to turn under for soiling crop. Also furnishes large amount of Nitrogen in soil if properly inoculated. Use Nitragin.



Alsike Clover



Sweet Clover

## Hop Clover, or Yellow Hop

(Annual)

This clover will be found growing wild over a good portion of the South, and is very valuable in all pastures. Hop comes out very early in the spring and lasts until mid-summer, when Bermuda Grass and Lespedeza take up the job of furnishing pasturage. Grows about 6 to 8 inches high, is very similar to lespedeza but a little more upright and has a yellow blossom instead of lespedeza's purple bloom. It is the earliest and fastest growing clover adapted to the South. Clays and loams that are not constantly wet satisfy it best. Sow 1 to 3 pounds per acre in your pasture mixture.

## Black Medic

Grows all during the winter and is just the thing to build up run-down soil and will improve the yield of crops that are planted on the land the following spring. Sow in March, 18 to 20 lbs. per acre.

## New Early Giant Burr Clover

Exceeds all other varieties as it attains a height of 4 to 5 feet while Common Burr grows only 1 to 1 1/2 feet and besides it is 3 to 4 weeks earlier in growth, blooming and maturing of seed. It succeeds on any loamy sandy soil. As a cover crop for turning under, you can't beat this new Giant type of Southern Burr Clover.

Sown in July, August and September. Makes superior pasturage, fair hay, and grows on any thin land, and if turned under the following spring, acts as a splendid fertilizer. Sow 40 pounds of burrs to the acre. In cotton middles for cover crop or pasture, sow 30 lbs. to the acre and you can harvest 3 to 4 hundred bushels of seed to the acre.

**Clover Seed Prices.** All prices on Clover seeds are given on our Green Ink List. Write for a copy.

**INOCULATE** Seeds of all legumes—clover seed, and related crops. They will yield far better if inoculated with Nitragin, and in addition leave in the soil a heavy deposit of nitrogen which benefits all succeeding crops. Farmers and gardeners who have used it would not be without it.

# Russell-Heckle's GRASS SEED

## Planting Directions

In planting grass seeds the land should first be thoroughly cultivated and pulverized. The seed may then be scattered by hand or with a hand-seeder, such as described in this catalogue. A harrow or rake should then be used, which will mix the seeds with the soil so they will be covered about one-quarter inch deep. If not convenient

to sprinkle, the planting should be done when there is a good season in the ground, and land rolled or dragged after harrowing. This will pack the soil so the moisture will be saved from evaporation and thus cause the seed to germinate, and to nurture the grass until it establishes a good root system.

## Red-Top or Herd's Grass

This grass makes excellent pasturage and a good crop of fine quality hay, and succeeds on a greater variety of soils than any other in general use. The place for Red Top is on rather moist soil, deficient in lime and fertility. It will grow where the soil is too poor for Timothy and Kentucky Blue Grass, and once established thickens and improves year after year. It is a good variety to sow with Timothy and Clover for meadow or pasture and is more permanent than either of the other two. On good soil it grows about two feet high; on poor, gravelly land about half that height. It has been grown successfully even on alkali land where other grasses failed. It requires about 8 to 10 pounds to seed an acre of the Fancy Clean seed. It can be sown either in the spring or fall.

## Orchard Grass

A long-lived perennial, comparatively deep-rooted, therefore, drought resistant. Splendid in pastures, furnishing about the first green bite in the spring and the last in the fall. Grows well in the shade of orchards and open wood lots. Prefers a well-drained rather light, neutral or sweet soil. Equal in productivity to Timothy, and outlives it—about same feeding value. Cut in full bloom for hay. Sow spring or fall in the South, 21 to 28 pounds per acre on thoroughly prepared pulverized soil, then roll in, making firm seed bed.

## Carpet Grass

### Easily Eradicated by Plowing

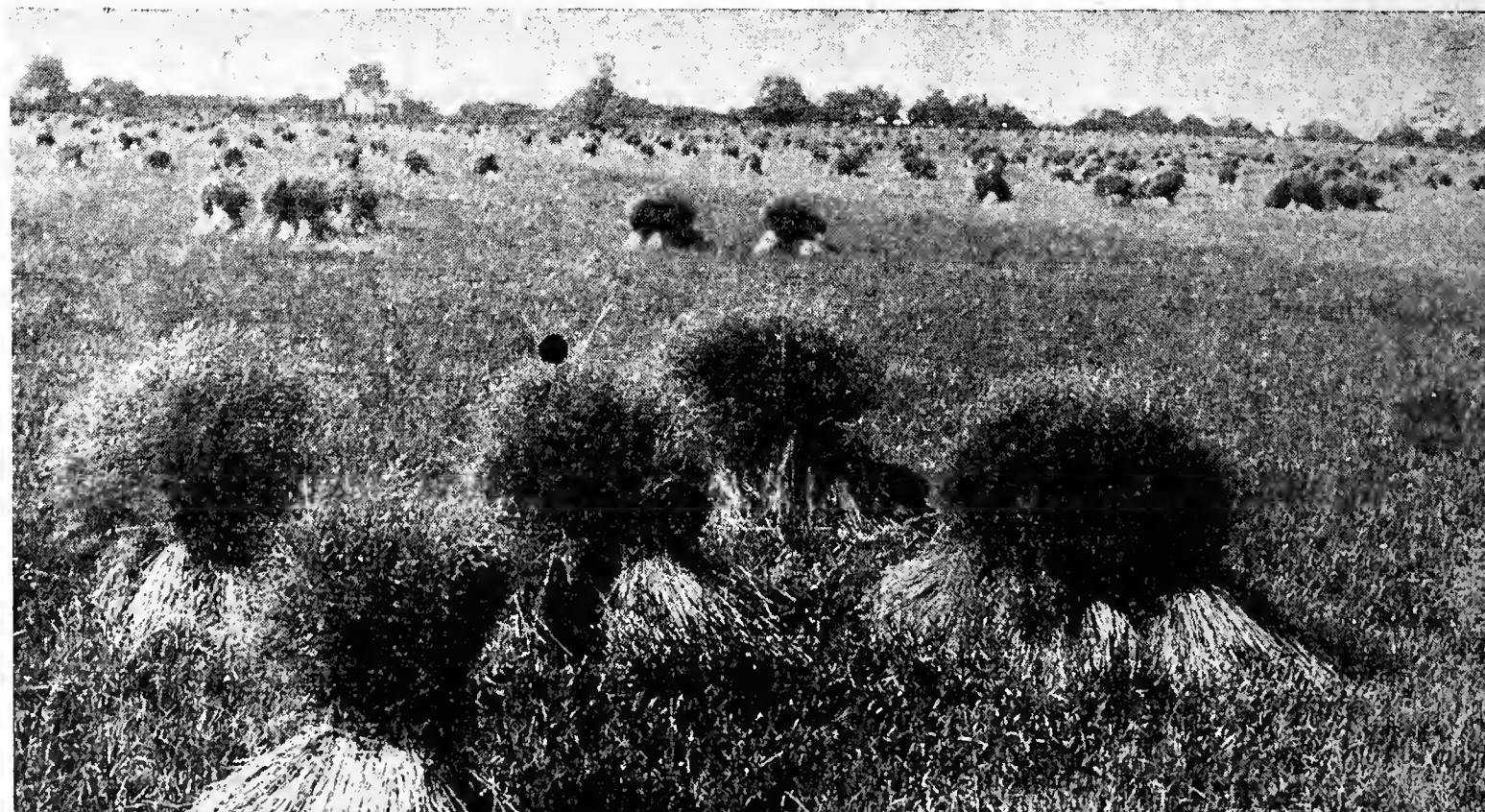
Grows practically anywhere over the South where temperature does not go below ten degrees above, thrives vigorously on any kind of soil if moisture conditions are favorable; even on acid soils and poor sandy soils. Equal in feeding value to Bermuda. May be grazed both earlier in spring and later in fall than Bermuda; stands close grazing and heavy trampling. In fact spreads more rapidly with close grazing. Sow 10 to 15 pounds per acre for pasture. Add 5 lbs. Lespedeza per acre to all Carpet Grass pastures. On golf courses, parks, lawns, sow 20 to 30 pounds per acre. Making a thick leafy sod that improves with close cutting. Sow spring and summer.

## Dallis Grass

Is a perennial, will grow 3 to 5 feet high if not cut. Has a long growing season all over South. Can be cut twice a season, making excellent green feed and hay. Stands close grazing and is not injured by light frost. Hardy, thrives on most soils that are not too dry and sandy, but prefers fairly heavy soils with moist condition. Sow from middle of March to June, 6 to 8 pounds per acre.



Timothy



Red-Top or Herd's Grass

## Timothy

A short-lived perennial, usually lasts 3 to 5 years, as the root system is rather shallow, it thrives best on rich, moist bottom lands, and on heavier types of soil—poorly on thin or sandy soils. Prefers sweet soil but does not form a sod. Won't stand close pasturing but is very palatable and will not injure stock no matter how much is eaten. For hay, cut after the purplish blue blooms have fallen, when the seed have formed and are in "milk" stage. Set the mower blade full 4 inches above the ground. Yields 1½ to 3 tons of hay.

Sow spring or fall, 15 pounds alone or 10 pounds Timothy and 5 pounds Alsike or 6 pounds Red Clover. A well-worked seed bed rolled before and after seeding is desirable, increasing supply of moisture.

## Kentucky Blue Grass

Adapted for shady locations, and requires rich soil. It will do well where lime is used in the ground. Fine for lawns, also for pasture, where soil is suitable. Sow in February, March and April, also in the fall. One pound sows 20 by 20 feet, or 400 square feet; 80 to 100 pounds to the acre.

## Bermuda Grass

Bermuda delights in sunshine and warmth. It is extensively used in this section for levee work and pasture. The seed should be planted in April, May or June. Seed requires 20 to 30 days to germinate. The ground should be well prepared with a good firm seed bed, and seed broadcast at the rate of ten pounds per acre. Do not cover more than half an inch. The seeding should not be done too early, as the seed will not germinate if sown before the weather and ground become warm.

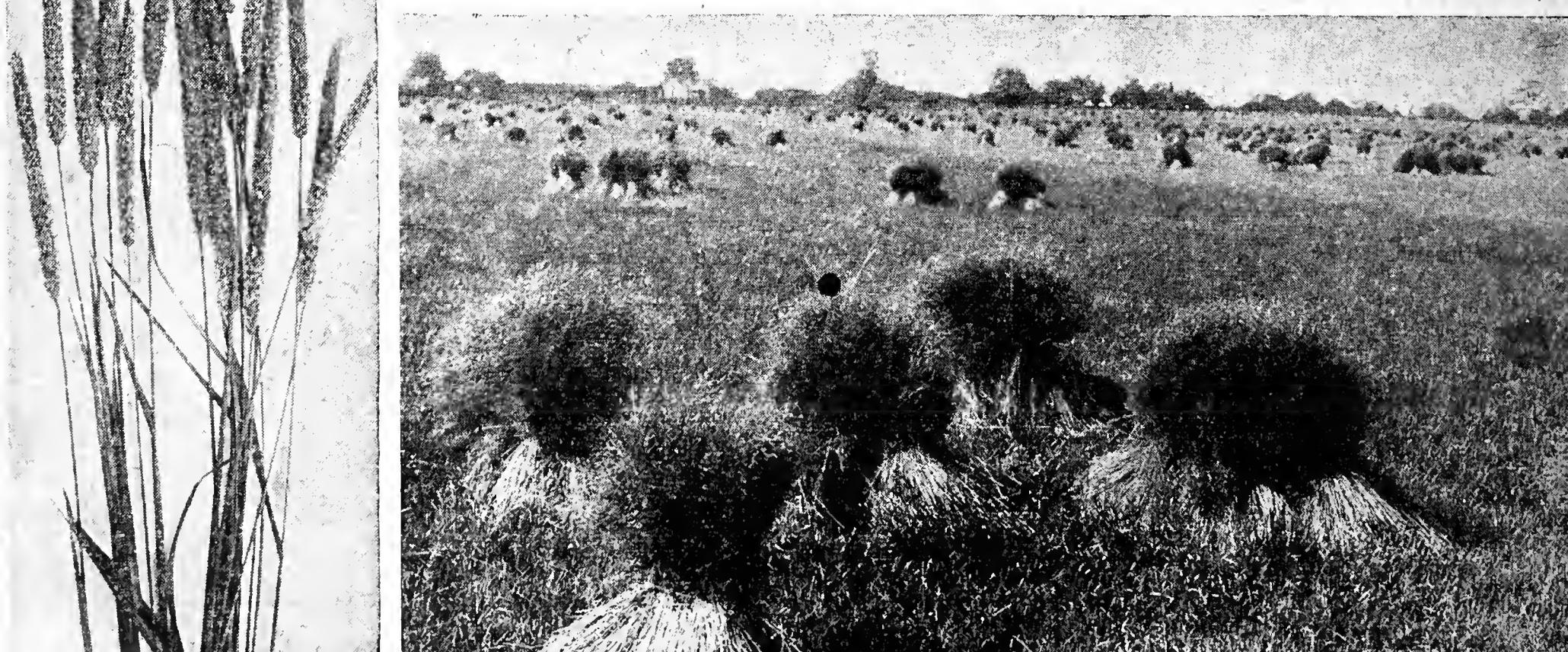


Orchard Grass

## Hulled Bermuda Grass

Is the same Bermuda Grass seed with the outer hull removed. This promotes quicker germination, requiring 8 to 10 days only, as against 20 to 30 days for un-hulled seed. Further, only about one-half the amount of seed is required when using hulled seed.

Current and Quantity prices on all grass seeds are quoted on Green Ink List enclosed.





Sudan Grass

## Sudan Grass

Sudan is an annual and must be planted over each spring, after the ground has become thoroughly warm. Very quick growing, Sudan can be cut 3 or 4 times each season, depending on moisture present. Ready to cut about 8 to 9 weeks after sowing, when first heads appear, or a little later won't hurt. Let it stand in cocks until thoroughly dry; the stems are very juicy and take longer than leaves to cure. Can be sown with Soy beans or Cowpeas and the mixture makes a well balanced ration. If planted on rich land, will yield splendidly. Sudan hay alone is relished by stock, and is as nutritious as Timothy. Should be planted on fairly rich loamy soil.

As a summer pasture, Sudan has few equals, continuing until frost. It is well to run mower over Sudan before turning stock in it—this will start it to stooling and prevent the whole young plant from being pulled up. Sudan is a splendid milk producer, supporting 1 to 3 cows per acre all summer depending on conditions. Can be cut and fed green also. Plant 10 to 15 pounds in drills, 25 to 30 pounds per acre broadcast.

## Russell-Heckle's Pasture Grass Mixtures

These are composed principally of grasses which ripen together for cutting; but they also contain other grasses which will also add very much to the pasturage yield, in case it is desired to use the fields for pasturage. These grass mixtures afford splendid crops of hay of the finest quality and highest feeding value, and after being cut will give continuous and abundant pasturage till winter comes. May be used for hay exclusively, or for hay and pasturage as needed.

**PERMANENT GRASS MIXTURE No. 1.** For hay or pasture. Recommended for light, loamy or medium upland, for either hay crop or grazing purposes. Composed of Orchard Grass, Perennial Rye Grass, Meadow Fescue Grass, Red Clover, Alfalfa, etc. Sow 30 to 35 pounds to the acre.

**PERMANENT GRASS MIXTURE No. 2.** Intended for good moist soils, also for grazing as well as hay. Sow 25 pounds per acre. This is intended for the average soil. Use more seed where land is drier. If stock does not keep down to six or ten inches use the mower to do so.

**PERMANENT HOG MIXTURE.** Especially prepared for pasturing hogs. Composed of Red Clover, Red Top Grass, Orchard Grass, Alsike Clover, Rape, etc. Sow in February, March and April, also fall, at rate of 20 lbs. per acre.

**TIMOTHY AND ALSIKE MIXED.** Suitable mixture for wet lands, furnishing good pasture and hay. Sow in early spring and fall, 15 pounds of the mixed seed per acre.

**CHICKEN PASTURE MIXTURE.** A splendid mixture of grains, clover and grasses for green feed for chicken runs. Sow in February, March and September, 30 pounds to the acre.

1939 ALMANAC CALENDAR furnished free with orders up to April 1st.  
Ask for your copy.

## Russell-Heckle's Lawn Grass Seed

Spade or plow ground to the depth of 8 inches. Afterwards harrow or rake carefully, pulverize all lumps and remove all large stones. If the soil is shallow, procure a supply of fine mold and spread over the surface to a depth of 5 inches. Soil may be enriched by bone meal or well-rotted manure wherever necessary, then rake level and roll the soil well to make a solid bottom. Scatter the seed evenly over the surface at the rate of 60 to 75 pounds per acre. Rake

seed in and roll, water regularly and carefully, as the soil is liable to dry out in the heat of the day, and if it does while the seed is germinating it will invariably perish. When the grass is 3 inches high it should be cut and rolled, and repeat until the grass has become firm. For small areas use one pound lawn seed to 20x20 or 400 square feet.

### Evergreen Lawn Grass

Our Evergreen Lawn Grass is a mixture of grasses that are adapted to lawn making, and contains none of the coarse grasses nor those that grow in tufts or clumps. No one grass makes an ideal lawn grass, so we have put into our Evergreen a well-balanced mixture of grasses that are at their best during different months of the year, will give a beautiful green growth at all seasons.

### Kentucky Blue Grass

Adapted for shady locations, and requires rich soil. It will do well where lime is used in the ground. Sow in February, March and April, also in the fall. One pound sows 20 by 20 feet, or 400 square feet; 80 to 100 pounds to the acre.

### Sunny South Lawn Grass

A mixture of regular Lawn Seed and Bermuda grass, especially adapted for open and sunny situations. It will stand hot weather and with frequent watering will make a beautiful green summer lawn. Cut the grass weekly which will cause it to stool and grow off to a solid turf. Sow in March, April and May. One pound to 400 square feet. If weather is dry, water well for good germination.

### Bermuda Grass

The dependable and hot weather grass for lawns. Sow April 15th to September 1st; have ground well prepared and cover seed lightly as seeds germinate slowly. Keep soil well watered until up. If weather is dry, soak ground well three times a week. Sow one pound to 20 by 40, or 800 square feet.

Keep lawn well cut and fertilized. Our hulled Bermuda seed gives perfect and quick results.

Prices on our Green Ink price list.

### Shady Spot Lawn Grass

Only a few grasses will grow satisfactory in the shade. Among the grasses best adapted to this purpose are Poa Trivialis and Red Fescue. These grasses should be the base of all mixtures for shady lawns and woods. Shady Spot Lawn Grass contains a large proportion of these two grasses besides other adapted turf-making grasses that will blend and make a thick velvety sod.

### Winter Rye Grass

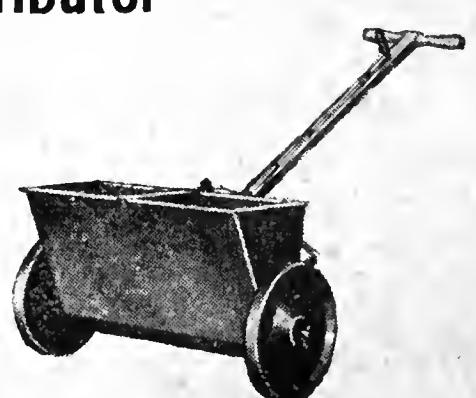
For winter lawns. When sown in the fall, which is the proper season, Winter Rye Grass remains green all through the winter. Sown on top of Bermuda in October or November. For lawns use 1 lb. to 10 by 20 feet.

For prices on all Grass seeds on this page, see our Green Ink List enclosed.

### Lawnette Fertilizer and Seed Distributor

Spreads fertilizer, lime or seeds, evenly and accurately. Saves time, worry and labor. Ideal for sowing on windy days, especially desirable on lawns since it puts down the fertilizer properly and evenly. It is equipped with gauge, etc., for controlling proper quantity to use. Easy running, sturdy machines that will last for years if properly taken care of. Made in 2 sizes.

No. 15—14" wide ..... \$ 2.90  
No. 215—24" wide ..... 11.50



# Russell-Heckle's LESPEDEZA - Japan Clover

## The Alfalfa of the South

Three species of Lespedeza—two annuals and one perennial—should be considered before deciding which to plant. The annuals are (1) Common, with two improved varieties, Tennessee 76 and Kobe, and (2) Korean. The perennial is Lespedeza Sericea.

## Planting Directions

### Sow in February, March, April

Lespedeza grows anywhere in the South. It is the only clover we know of that will grow on acid soils, but it does respond to lime. It grows on worn-out gravelly hillsides, and waste lands where nothing else of value will grow. Naturally, it produces better results on the better soils, except on black buckshot in the delta sections—do not plant it there for it will fail.

Lespedeza withstands drouths that will kill other crops when there is a thick stand before drouth begins. Being a legume it is a valuable soil improver, and thousands of acres of worn out soil have been restored to extreme fertility by sowing Lespedeza, grazing it to hogs and cattle for a year or two then turning under in the fall.

Lespedeza stands heavy grazing, and will increase grazing capacity of pastures by 25 percent. It reseeds itself every year even when severely grazed, but you can kill it out any time you want with a cultivated crop.

Lespedeza hay is nearly as high in feeding value as alfalfa, and is about the most used hay in the South. We have seen yields of five

tons per acre in one season, though two tons is more usual. The better the soil the better the hay yield—moisture is a big factor. The best hay is made when lespedeza is not more than 15 inches high—when taller, it is more stemmy with smaller proportion of leaves. When it is left until a considerable proportion of seed are ripe the resulting hay is of poorer grade.

Lespedeza contains less moisture than alfalfa or red clover, and is therefore more quickly cured. Cutting when about 15 inches high will leave ample time to grow a seed crop before frost. It is an annual making seed every year.

Mixed lespedeza and Bermuda grass hay is often cut—it also combines well with orchard grass and red top—the first cutting is almost all grass, the second pure lespedeza.

Lespedeza can also be sown in the spring on top of fall planted oats. When the oats are cut in dough state, or later for grain, the lespedeza will come on and make a full hay crop, and later on, a seed crop.

**Inoculate all lespedezas—with Nitragin.**

## Korean Lespedeza

Korean is the earliest of the annual Lespedezas, coming up first and growing rapidly, therefore giving earliest grazing of any lespedeza. Grows taller than Common, larger plant and coarser, with broader leaflets. Korean matures earlier than other lespedezas, seed beginning to ripen in September. The only variety suitable for Northern half of the United States. Korean is fine in combination with grain for it will drop seed before time to break the ground to sow grain in the fall. Korean is fine in pasture combinations, and an abundant hay yielder.

## Tennessee No. 76 Lespedeza

This variety is similar to the common or wild variety, except that it is taller and more upright in growth, holding all the branches off the ground, even when the plants stand alone. It is finer stemmed than Korean or Kobe, and grows to the height of nearly three feet under favorable conditions. It blooms slightly later than Kobe and considerably later than Korean or Common. The hay yields made on the West Tennessee Experiment Farms are larger than those of the other varieties.

## Kobe Lespedeza

Kobe has certainly earned a home for itself on Southern farms, particularly where long periods of drought occurred, for Kobe came through these droughts where Common Lespedeza was burned out. This drought resistance is a life-saver to a farmer, and is no doubt due to the very extensive root system and its rank growth, with larger than ordinary leaves. We have seen Kobe 38 inches tall but usually it is 2 to 2½ feet tall. We have seen yields of 4 tons per acre with Kobe. It is excellent for hay and pasture alike. Can be sown with oats, also with orchard grass and red top or herd's grass.

## Common Lespedeza

The original variety, grown all over the South, for hay, grazing and soil building. Not so tall as Kobe and Korean but is a good crop and will always be in demand.

## LESPEDEZA SERICEA

## The New Perennial Lespedeza

An entirely new type—once planted, it comes back each spring from the crowns like alfalfa, and is often called "The Poor Land Alfalfa." All other lespedeza varieties must be re-seeded or allowed to drop their seed each year.

Sericea has an enormous root system, penetrating often four feet into the soil, with a perfect mat of smaller roots spreading everywhere—you can see what this means as a positive cure for soil erosion. Further it seems to be the answer to a farmer's prayer for a pasture that is drought proof. Sericea pastures in Korea in use for fifty years are better today than ever. The enormous root system is loaded with nodules of nitrogen, adding immensely to soil fertility provided you inoculate when seeding.

Sericea will grow apparently anywhere in the South on almost any type of soil (except Miss. Delta buckshot) without liming or any kind of treatment. Two cuttings of hay and a seed crop may be obtained each year, as high as four tons of dry hay in one season, the equal of alfalfa in feeding value. Sericea is extremely leafy.

Plant only hulled and scarified seed in April or May, after danger of frost is past. This treatment of the seed brings quick germination. If you plant unshelled seed in the spring you won't get 10 per cent germination, so avoid this. For seed crop, plant 4 pounds scarified seed per acre in 2½ ft. rows. The yield is from 300 to 900 lbs. of seed per acre. For hay, sow 20 pounds of scarified seed per acre. Have your seed bed free of weeds, thoroughly plowed, disked and harrowed, cover seed very lightly—you can use a light roller to advantage, firming the soil to conserve moisture.

The first year you will see lots of grass and weeds, but don't give up—the second year Sericea looks much better, and the third year, and thereafter, you have a crop you will be eternally proud of.

Quantity and current prices on all Lespedeza seed are given on our Green Ink List.



Same field of Lespedeza Sericea at two stages of growth

# SAGRIN

Grows on land you can't plant to other crops; thrives in low places that usually drown out. Produces from 8 to 20 tons silage, or if left to ripen will produce from 50 to 75 bushels grain (about double corn yield), and 4 to 8 tons cured hay; has heads like Kaffir. Usually weighs about 7 ounces and the average ear corn weighs 8 ounces. In feeding value has 90% value corn; can be fed to hogs, chickens, cattle and work stock. Plant as early in the spring as frost will allow. Will then be ready to harvest when the crops are laid by, usually along about August 1. Splendid in combination with Biloxi Soy Beans.

Plant in 3½-foot rows. Cultivate a couple of times and thin out, leaving a stalk every 8 inches apart. Use a common sorghum or pea plate. We do not recommend broadcast planting. Can be best harvested with corn binder, shocked like oats until cured. Six to eight pounds will seed an acre, planted in 3 to 3½-foot rows. From each seed planted you get from 6 to 10 heads of grain as it stools out and should be left very thin in drill.

**303-37.** An improved strain, a dwarf selection of the original Sagrain, with heavier head. Stalks grow stocky, dwarf and very uniform. You will find it a great improvement over the regular strain.

Prices on Green Ink List enclosed.

## R.-H. Co.'s MILLET

Nothing pays better for a stock raiser or dairy farmer than a few acres of Millet, for it not only yields at least half again as much hay per acre as Timothy or Clover but is also of the greatest feeding value and milk producing quality. When spring is so unfavorable that other crops fail to grow, or when the season is so late that corn will not mature, Millet is invaluable.

### Tennessee German Millet

Our Southern grown Millet makes much better growth than the Western grown seed. This true Tennessee grown, a type that produces better quality, grows taller and gives a larger yield of very nutritious hay, is a quick grower. It should be cut for hay when it begins to show the heads. Plant 1½ to 2 bushels an acre broadcast. Plant from April to August.

### Japanese or Barnyard Millet

Distinct from other millets; grows 4 to 6 feet high, yielding an enormous crop that in quality is equal to corn fodder and is relished by stock. Sow in May, June or July, 20 pounds to the acre broadcast; or sow in 15-inch drills and cultivate until it is 18 inches high.

### Pearl or Cattail Millet

One of the greatest and best yielders of green forage and continues to grow and produce through the entire season if cut frequently enough to prevent its going to seed; three to four cuttings may be had. Sow thinly in rows 3 feet apart at rate of 8 to 10 pounds per acre.

Prices on Green Ink List enclosed.



Sagrain 303-37

## R.-H. Co.'s Seed Oats

**Culture**—Sow as early as possible, in February and through March, in good soil two to two and one-half bushels to the acre. If the soil is poor, use 200 to 300 pounds 16% Phosphate to the acre. Cut them for hay when the oats are in the milk stage or about half mature.

### Early Burt or Ninety-Day Oats

Probably the earliest maturing of all Oats, hence Burts can be planted after it is too late to sow any other variety. Can be planted in March and mature in time to escape injury from heat. Early plantings can be cut in time to put the same land in corn, cowpeas, soy beans, peanuts, cane, millet, or other summer crops. For quick feed in the spring and for grazing, the Early Burt is the best of all. It is not a heavy yielder of grain, but fine for cutting in the dough stage.

### Appler Oats

This is another development from an improvement over the old original Red Rust-Proof Oats. Its productiveness, probably more than any of its other good qualities, has contributed to its wide popularity. They stool out splendidly, have large, full heads, fine, plump grains and strong straw that stands about three feet high. It has plump grains and exceptional heavy weight; the weight per measured bushel averaged 35 pounds, often reaching 37 pounds, and almost never falling below 32 pounds.

### Fulghum

A rust-proof variety developed from the original Red Rust-Proof Oat. It is one of the most satisfactory and popular oats known. Its productiveness and early maturity, probably more than any of its other good qualities, have contributed to its wide popularity. They stool out splendidly, have large full heads, fine plump grains, and strong straw that stands about 3 feet high.

Treat all seed oats before planting with New Improved Ceresan.

### Fulgrain Strain 2 Oats

This variety bred and introduced by Coker's Pedigreed Seed Farms. It is very cold resistant, stools profusely, making it a splendid grazing crop. Bred to resist smut damage. Two weeks earlier than Red Rust-Proof and Applers. Five days earlier than Fulghum. A very prolific grain yielder; contains 10% to 15% higher protein and fat content than other oats.

### Red Rust-Proof Oats

For years the standard in the South. Thousands of acres are planted to Red Rust-Proof Oats each year. Oats in the South have long been subject to rust and that's why the Northern White Oats are not successful down South. The Red Rust-Proof Oat is a very vigorous grower, robust and productive, does well on low ground.

### Ferguson 922

Another of the improved strains introduced from Texas out of original Rust-Proof variety. A very prolific yielder, standing with Nortex right at the top in Mississippi Experiment Station tests.

### Nortex Oats

Introduced and named by the Northern Texas Experiment Station. A much improved strain of original Texas Red Rust-Proof. A little earlier and much more winter-resistant. In numerous tests at Mississippi Experiment Station, has stood right at top in yields of grain per acre.

See Green Ink List enclosed for present prices on Seed Oats and Millet.

Millet



Field of Laredo Soy Beans

## RUSSELL-HECKLE'S SOY BEANS

*They Make Poor Land Good—They Make Good Land Better*

**They make a rich and nutritious hay and one of the cheapest. The beans always find ready sale at the oil mills and for planting. It is one of the South's most economical soil improvers. They require no fertilizers except acid phosphate.**

Our location in the very heart of the original and best Soy Bean seed-producing section enables us to supply the finest stock of seed offered anywhere at especially advantageous prices, quality considered. When you buy from us, you buy direct from Soy Bean headquarters. We grow and handle many thousand bushels of Soys every year.

**Inoculate.** Be sure to inoculate the seeds with Nitragin. Not only will you have assurance of a surer stand, but a better crop, and the succeeding crop will have the benefit of the nitrogen stored in the bean roots.

**CULTURE.** Soy beans may be planted either broadcast or in drills. Usually a better crop is had when planted in drills and cultivated, and few crops leave the land cleaner and in better condition for the following crop. They grow equally well on light and heavy soils, but on heavy soils they should not be planted more than 1 to 1½ inches deep except in dry seasons. On light sandy soils plant deeper, but not more than 3 inches deep. When sown broadcast sow 1 to 1½ bushels to the acre; in drills about a peck to the acre. Plant in April, May or June.

### Avoyelles

Developed in Louisiana, grows very similar to Otootan, sometimes called Improved Otootan, seed are much larger—the worms past year in Louisiana did no damage to Avoyelles but ruined the Otootans.

### Biloxi Soy Beans

An upright variety growing 4 to 5 feet high, covered with a dense mass of foliage that does not shed easily. A heavy yielder of beans; the oil and protein contents are high; a fine bean for hogging down, for planting with corn or sorghum and for oil. The beans do not shatter, will stay in the pods until February. Late in maturing, requiring a long season to mature, but makes an unusually luxuriant growth; sow seed broadcast at rate of two bushels to an acre. In drills, sow ½ bushel to the acre.

### Delsta

Very stout, erect, short and bushy, splendid for combination with corn. Plant thick for hay. Very prolific, beans little larger than Mammoth Yellow and shatter much less.

### Laredo Soy Beans

One bushel will plant 6 to 8 acres in rows 3 to 3½ feet apart, depending upon how thick you want them. We know of one farmer who got a perfect stand using one bushel to 12 acres. They should not be covered deeper than 1½ inches; a half-inch is better. One or two cultivations to keep down the grass and weeds is advisable. The Delta Experiment Station reports splendid results from sowing Laredo March 25th to April 10th with a wheat drill on oats planted the previous fall. This drill helped instead of hurting the oats, and the beans were not large enough when the oats were harvested to interfere with the binder. Sow seed broadcast at rate of one bushel per acre; when sown in drills sow about 1 gallon or 2 gallons per acre.

#### PRICES — NITRAGIN INOCULATION FOR SOY BEANS AND COW PEAS

1 bu.— 60-lb. size .....	\$0.30	10 bu.— 600-lb. size ...	\$1.60
2 bu.— 120-lb. size .....	.50	25 bu.— 1500-lb. size ...	3.00
5 bu.— 300-lb. size .....	1.00		

— Specify Crops When Ordering —

Quantity and current prices on all soy beans are given on our Green Ink List.

### Mammoth Brown

A fine big foliage variety, succeeds well in this section; won't shatter. The plant is upright, with heavy branches; a big yielder of beans and foliage. Does well on all soils. It is a medium early variety: matures its beans in about 110 days.

It should be planted in rows 3 to 5 feet apart and 8 to 10 inches in the row; sow 10 to 12 pounds to an acre. Mammoth Brown Soys grow 4 to 5 feet high and are covered with a dense mass of foliage that does not shed easily. When sown broadcast, use 1 to 1½ bushels of seed to the acre.

### Mamloxi (Mammoth-Biloxi Hybrid)

Developed at Stoneville, Miss., Experiment Station. Is erect in growth, upright, very prolific yielder of beans, and very fine for combination with corn, and soil building. Good for hay if planted thick. Matures about with Mammoth Yellows but shatters very little. Seed yellow with some brown markings.

### Mammoth Yellow Soy Beans

Valuable for both beans and forage. Mammoth Yellow is one of the largest growers among Soy Beans, and the most widely grown variety and excels in yield of bean and hay; sow seed in May broadcast at the rate of two bushels to the acre; when planted in drills use ½ bushel seed to the acre.

### Mamredo Soy Beans

Produced from a hybrid of Mammoth Yellow and Laredo Soys at Delta Branch Ex. Sta. Shatters comparatively little, upright bushy plant, splendid for grazing and hay; its extra earliness is very valuable. Each of the characteristics is desirable; try some of these sure.

### Otootan Soy Beans

Few Soy Beans can equal Otootan as a hay maker. Its late maturity is more than overcome by the abundant growth—5 feet or more in long growing seasons—its fine stems and abundant foliage, and the fine texture of its hay. It differs from most varieties in having many leafy branches instead of a coarse central stem, making it easy to cut. Planted in 3-foot rows, they will cover the land with a mass of foliage. Plant one gallon per acre in corn.

### Tokio

Maybe a few days earlier than Mammoth Yellow but does not shatter quite so much. Bush type, erect growth; very prolific, and much grown in Tennessee and East Mississippi. Plant thick for hay. Seed greenish color, round.

### Virginia Soy Beans

As it is about 20 days earlier than Mammoth Yellow, it can be grown farther north and throughout the corn belt. The vines make a fine growth, are filled with pods, stand about 3 feet high, are easy to cut and easy to cure. The stems being fine and the leafage profuse adapts it particularly well for hay making; sow broadcast one and one-half bushels to an acre; in drills ½ bushel to an acre.

Quantity Prices Given on



## CROTALARIA Spectabilis

This is truly a marvelous summer cover crop, a yield of 40,000 pounds of green material per acre is not uncommon. The humus produced by such a yield is of tremendous value. More important still, Crotalaria is a legume adding, when turned under, the equivalent of 800 pounds of Nitrate of Soda per acre (3-year test Florida Experiment Station showed 885 pounds average).

Crotalaria has succeeded all over the South, and as far north as Indiana. It is not a host to injurious insects and diseases. It will reseed itself under favorable conditions, but is not a pest and can easily be eradicated. Splendid soil builder in orchards, etc. Fine with corn planted in same rows when corn is planted, or in corn and other farm crops at last cultivation. It will just about double crop yields

following it. It is not offered as a feed crop, or hay crop, though a nearby farmer tells us his mules ate it readily. But it is really too valuable as a fertilizer to feed. It will reclaim worn out hillsides, gullies, etc.

Thoroughly plow, disc and harrow the soil. Sow after danger of frost is past, when moisture is present, 10 to 15 pounds per acre broadcast or five pounds drilled in 3-foot rows, using scarified seed only as with Sericea. Firm the soil immediately after planting to conserve the moisture, cultivate once or twice when planted in rows.

Louisiana (Baton Rouge). Experiment Station for 1929 to 1933 reports 5-year average yield of 22 tons green manure per acre and 169 pounds nitrogen, equivalent to 1000 lbs. 16 per cent Nitrate Soda.

## Mung Beans (Green Seeded)

Mung Beans grow in upright bush form, 2 to 4 feet high according to soil and climatic conditions. They have very heavy foliage, fine leaves and finer stems than any soy beans; a very important feature of Mung Beans is that the foliage is perfectly green and still growing when the seed is ripe and ready to be threshed. The hay cures quickly and may be threshed in 2 or 4 days after cutting, and it retains all the leaves. Threshed Mung Bean hay, properly cured, is equal to Alfalfa hay and is readily eaten by all kinds of live stock. This makes it possible to make from 5 to 20 bushels seed per acre for a money crop, besides obtaining at same time yield of 1 to 2 tons of very best quality hay high in protein. Matures in 70 to 90 days; harvest when majority of pods turn black. Best results with a mower and windrow attachment, or follow mower with side-delivery rake.

Mung Beans are a great soil builder, when properly inoculated. Use Nitragin. Sow 20 pounds seed per acre in 36 inch rows—cultivate until rows grow together too close to permit it.

## Cow Peas

**Culture**—May be sown at any time from March to September, either broadcast or in drills. One to two bushels per acre for broadcasting; two to three pecks for drilling.

**SOWING COW PEAS WITH SOY-BEANS, KAFFIR CORN, SORGHUM, AND SUDAN GRASS.** Cow-peas may be sown with these crops to furnish support and make the harvest easier. Sow half a bushel soy-beans or one peck kaffir corn or sorghum to ten pounds Sudan Grass with one bushel cow-peas to the acre.

**SOWING COW-PEAS WITH MILLET.** New Era and Whippoorwill are the best kinds to sow with German Millet—one bushel of peas to three-fourths of a bushel of millet per acre. The crop should be cut when the millet is ready. The peas will have reached the dough state by that time and make an excellent combination of large-yielding and most nutritious feed.

**WHIPPOORWILL.** A favorite early bunch-growing variety.

**NEW ERA.** An early, upright-growing variety. Matures early.

**BLACK STOCK.** Large vining variety. Best for thin land.

**CLAY.** Very similar to Black Stock, matures earlier.

**RED RIPPER.** Vines grow long; make an abundance of hay.

**MIXED.** Preferred by many farmers; they will grow thicker than separate varieties, producing better crop of vines and forage.

**MIXED COW PEAS AND SOY BEANS.** The beans, being of upright growth, support the long pea vines, and not only make the harvesting easier, but the combination of cow-peas and soy beans makes a better hay than either when grown alone, and they are easier to cure.

**LARGE WHITE BLACK EYE.** The dried peas are readily salable as table peas during the winter.

**WHITE, CREAM, OR LADY.** Fine for table use. Very prolific.

**WHITE CROWDER.** An excellent variety for table use.

**BROWN CROWDER.** Clay colored, large size, of fine flavor.

## Early Speckled Velvet Beans

The most valuable of all varieties and the general favorite for all sections. This variety is the quickest grower and the most prolific. Matures in from 90 to 100 days. Sow in drills in May, one peck to the acre.

In the South, Velvet Beans are used very largely for winter grazing, and for that purpose is one of the best crops for the light soils and the long season of the Gulf Coast and Florida. They should be allowed to grow until December, or until killed by frost, after which they can be grazed through the winter, as the vines, leaves and pods decay very slowly and remain palatable a long time. Early in the year, the crop remaining is plowed under as a soil improver, and adds very materially to the productiveness of the soil.

As a soil improver they are considered superior to cow peas, as they make so much larger growth and so much heavier amount of foliage. The proportion of nitrogen contained in the vines is about the same as cow peas, but as the yield is so much greater, the total amounts of nitrogen and humus added to the soil are correspondingly larger. A crop of three tons will add as much nitrogen to the soil as will a ton of cotton seed meal, while the amount of humus will be three times as great.

## Austrian Winter Peas

Sown for the same purpose as vetch in September and October. Grows much like an English pea, upright and is ready to turn under a little earlier than vetch. Not as winter-resistant as vetch but usually stands 12 degrees above zero. Sow 30 to 40 pounds seed per acre in cotton middles. When sown broadcast with grain use 25 pounds Winter Peas and 3 pecks Abruzzi Rye or 1 bushel wheat or two bushels oats per acre. Be sure to inoculate with Nitragin. Price given in July.

## Winter Sand or Hairy Vetch

One of the best winter legume and green manure crops. Rarely ever winter killed in the South. Grows on almost any well drained soil, thrives on sandy soil, needs a fair amount of moisture to start, but endures considerable drought. Sow in September and October in cotton middles or with rye, wheat, oats, or barley, as vetch grows better if kept off the ground. Can be turned under in time to plant cotton or corn—a wonderful soil builder when inoculated. A fair feed crop and grazing crop. Inoculate with Nitragin. Sow 15 to 30 pounds per acre, not too deep, have surface well worked and compact, also free of weeds. Price made in July.

## Hungarian Vetch

Not as winter-resistant as Hairy, but nearly so. Does not grow as tall as Hairy, but its tonnage will surprise you. Grows off quicker in spring than Hairy, is more disease-resistant, and experiment station reports in Mississippi indicate it stores even more nitrogen in the soil than Hairy Vetch. Seed is cheaper per pound than Hairy, but being larger, you must plant more per acre. Culture same as Hairy Vetch. Be sure to inoculate. Price given in July.

QUANTITY PRICES ON ALL SEEDS DESCRIBED ON THIS PAGE ARE GIVEN ON OUR GREEN INK LIST ENCLOSED

# SORGHUM

**Culture**—Plant when the ground becomes thoroughly warm, say two weeks after corn planting, on a rich, well-drained clay loam, in rows  $3\frac{1}{2}$  to 4 feet apart, and cultivate as you would corn. After the flowering stage is passed, but not earlier, it may be pastured or cut for fodder. Sorghum may be grown with cow peas and soy beans either in rows or broadcast.

## Special Warning on Sorghum Cane

**NON-WARRANTY.** Owing to the peculiar hybridization of syrup cane varieties, it is impossible to guarantee any of the varieties here listed. We have selected all the syrup cane varieties on our list with best possible care, but at the same time, do not guarantee that they will come true.

All orders for syrup cane varieties are therefore accepted only on these conditions.

## Cane Seed for Sorghum

**JAPANESE HONEY RIBBON CANE.** For making syrup this variety has no equal. It has been yielding from one hundred to two hundred gallons per acre. It makes a syrup of bright amber color and of fine flavor. The stalks grow from 12 to 15 feet high, the seed are carried in a sprouting type head, are red, rather flat shaped and most of the hulls remain on the seed when threshed. With its large foliage makes one of the best varieties for ensilage. For making syrup, cut just before the heads ripen, at which stage the sugar content of the plant is greatest. Japanese Ribbon Cane matures ready for the mill in about 130 to 140 days. We, therefore, advise planting as early in May as possible. One gallon of seed will drill one acre. Cultivate like cotton, leaving plants about 10 to 12 inches apart in the row.

**SUGAR DRIP.** It makes a large, juicy and succulent growth. It will yield about 65 per cent of the weight of the cane in juice. One of the most desirable syrup varieties.

## Cane for Fodder

**EARLY AMBER CANE.** One of the earliest sorghums and furnishes a large yield of most nutritious forage which may be fed either green or cured. If grown with cowpeas or soy beans the quality of the hay is improved and a more balanced ration may be had. The proportions recommended are 15 lbs. Early Amber Cane,  $\frac{1}{2}$  bushel of soy beans and 1 bushel cowpeas to the acre broadcast. Grows 10 to 12 feet high. Sow broadcast 1 to  $1\frac{1}{2}$  bushels to the acre; 8 to 10 lbs. plants an acre in  $3\frac{1}{2}$  to 4-ft. rows.

**EARLY ORANGE CANE.** About 10 days later than Early Amber Cane, but makes a taller and more leafy growth. It is recommended for fodder, of which it yields immense crops, frequently two cuttings a season, and stooling out thicker after cutting. It may be grown with soy beans and cowpeas as recommended for Early Amber Cane and the quantity to plant an acre is the same.

**RED TOP or SUMAC.** Grown extensively in Middle Tennessee. Succeeds well in this section. Very sweet and one of the best for hay.

# FODDER and GRAIN CROPS

## Yellow Milo Maize

A wonderfully drought-resistant, non-saccharine sorghum that makes a thick succulent growth of nutritious milk-producing forage. For fodder and ensilage, cut when in the dough stage; at this stage it has a feeding value practically equal to corn. Any good corn land will bring Milo Maize either for green feed, dry fodder or for the grain. It grows on all soils from sandy to heavy clay loam. Plant in  $3\frac{1}{2}$ -ft. rows after the ground is thoroughly warm, and give it the same cultivation you would corn. Six to eight pounds will plant an acre.

## White Kaffir Corn

Kaffir Corn yields heavy crops. It adapts itself to a wide variety of soils; a long dry spell may stop its growth, but it starts again with the first rain. The grain as well as the plant makes fine feed for stock, hogs, poultry and pigeons. With Cowpeas, sow broadcast one peck of Kaffir Corn to a bushel of peas; sown alone, 3 pecks to a bushel an acre broadcast; in drills 6 to 8 pounds an acre in  $3\frac{1}{2}$ -ft. rows. Plant from after the ground is thoroughly warm till early in June.

## Egyptian Wheat or Shallu

The heads are large and heavy. It makes hens lay better than any poultry food. Plant in drills 3 feet apart, using 10 pounds of seed per acre; or broadcast, using from 2 to 4 bushels.

## Grohoma

This new forage and grain crop, after thorough trials the past season, was found very satisfactory. Stock of all kinds like it, in fact they eat every particle of the stalk, leaves and head. Plant from April 1st to July 1st in good soil. Make rows 4 feet apart drop seed 12 inches. Since it stools considerably, very little seed is required. Sow 2 pounds to the acre.

## Feterita

Three or four weeks earlier than Kaffir Corn. It is the most drought-resisting of any of the sorghum family. Sow in April or May, in drills, 5 pounds to the acre.



Japanese Honey Ribbon Cane

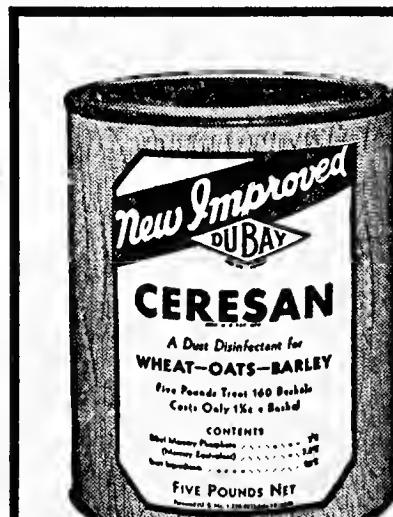
## Darso

Low growing, heavy foliaged, with a large stalk, usually tinged red. On account of its drought-resisting qualities it has become a safe feed crop. Makes excellent silage, grain, and forage. Sow in  $3\frac{1}{2}$ -ft. rows, 10 lbs. to the acre.

## Hegari

Earlier than Kaffir corn or Feterita, dwarf in growth with large heads of white grains, stands dry weather well. Plant 8 to 10 pounds per acre in drills.

**QUANTITY PRICES ON SORGHUM AND OTHER SEEDS DESCRIBED ON THIS PAGE ARE GIVEN ON OUR GREEN INK LIST ENCLOSED.**



## New Improved Ceresan

Be sure to use it on your oats, barley, sorghum, kaffir corn, sa-grain, etc. It will give better germination and prevent smut in oats, sorghum and all grains.

It requires only 1 pound to treat 32 bushels of oats. The results are really marvelous. Apply as a dust before planting. Ask for circulars.

1 lb., 70c; 5 lbs., \$3.00; 25-lb. pail, \$12.75. Postpaid, 1 lb., 80c; 5 lbs., \$3.20.

## Aero Cyanamid

A valuable fertilizer for all grains, cotton, corn, grasses, pastures, fruit trees or berry plants. It is a granular concentrated fertilizer material containing 21% Nitrogen and 70% Hydrated Lime that feeds the crop and sweetens the soil.

Cyanamid aids in controlling weeds and disease organism. Ask for circulars on this splendid scientific fertilizer. Price: \$2.25 per 100 lbs.; ton lots on Green Ink List.

# DWARF ESSEX RAPE

This splendid crop has at last come into its own—larger and larger acreage being planted every year. The reason—it is a most excellent pasture and green forage crop for cattle, hogs, sheep and stock. It is high in feeding value, producing an abundant flow of milk in milch cows (feed rape to milch cows after milking, not before, to avoid slight cabbage flavor to milk).

Experiments show that Rape is a more efficient fattener and more economical feed for hogs than Alfalfa, Clover or Blue Grass. It will stand more cold weather and last longer in the fall than any of the grasses. One acre of Rape will pasture 8 to 10 sheep, other animals in proportion. Turn stock in when plants are 8 inches high. To avoid possibility of bloat, accustom stock to Rape gradually, pasturing after dew is off. Feed dairy cattle and sheep a full feed of grain for the first week or two before pasturing Rape, and provide salt at all times.

Rape can be cut and fed green. Cut about 4 inches above ground, first time when plants are a foot high, just enough for a day's feed at a time. When you expect to cut and feed green, Rape should be planted in rows and cultivated 2 to 4 times.

Rape will grow 1½ to 3 feet tall—grows very rapidly—ready to use in 8 weeks. Prefers a rich mellow soil, will do well on most fairly good soils except sand or stiff clays, needs plenty of moisture to start. Plow deeply, disk well and harrow thoroughly. Can be sown with spring grain or in combination with clover. Sow in drills 4 to 6 pounds—broadcast 10 to 15 pounds per acre, about 1 inch deep. Sow from August through April.

## Seed Peanuts

Prepare the ground well, laying off in rows with a shovel plow; the rows should be 3½ feet apart, and put 2 kernels to the hill, hills about 1 foot apart. One and one-half bushels of unshelled nuts will seed an acre. Crack or break the hull before planting.

**TENNESSEE LONG RED.** Especially adapted to this section. The nuts contain three large kernels in each and are enormously productive.

**IMPROVED WHITE VIRGINIA.** These are uniformly large, and when grown on light sandy land will produce nuts of that bright attractive appearance demanded by the best trade.

**SPANISH PEANUTS.** Although not as large as other kinds there is no peanut grown that so entirely fills the pod or can compare with it in sweetness and flavor.

## Seed Wheat

### Coker's Red Heart Wheat Strain No. 4

Coker's Pedigreed Seed Farms began work on Coker's Red Heart Wheat more than 20 years ago and Strain 4 is their newest and best strain. Strain 4 is fully 10 days earlier than Strain 1, and 2 to 3 weeks earlier than Forward, Leaf's Prolific and Fulcaster, and a week earlier than Blue Stem and New Gasta. Has a strong stiff straw and stands up well in bad weather. A very prolific and dependable yielder, resistant to smut.

## New Gasta Wheat

A pure high-bred smooth beardless wheat, the kind you should plant both for grain and pasture. Gasta Wheat was developed by the Georgia Experimental Station. It is very prolific, both storm and winter resistant.

Sow 1¼ to 1½ bushels to the acre in October or November.

## Winter Rye

Sow from August 25th until middle of November.

**ABRUZZI RYE.** A distinct variety, far better than any other, in that it grows very much faster and stools much heavier, which means doubling the amount of grazing on an acre. You can start grazing earlier after sowing and keep it up longer. Three pecks to 1 bushel abruzzi plants an acre against 5 to 6 pecks of other Rye—this makes Abruzzi cost less to plant, yet you get more in return.

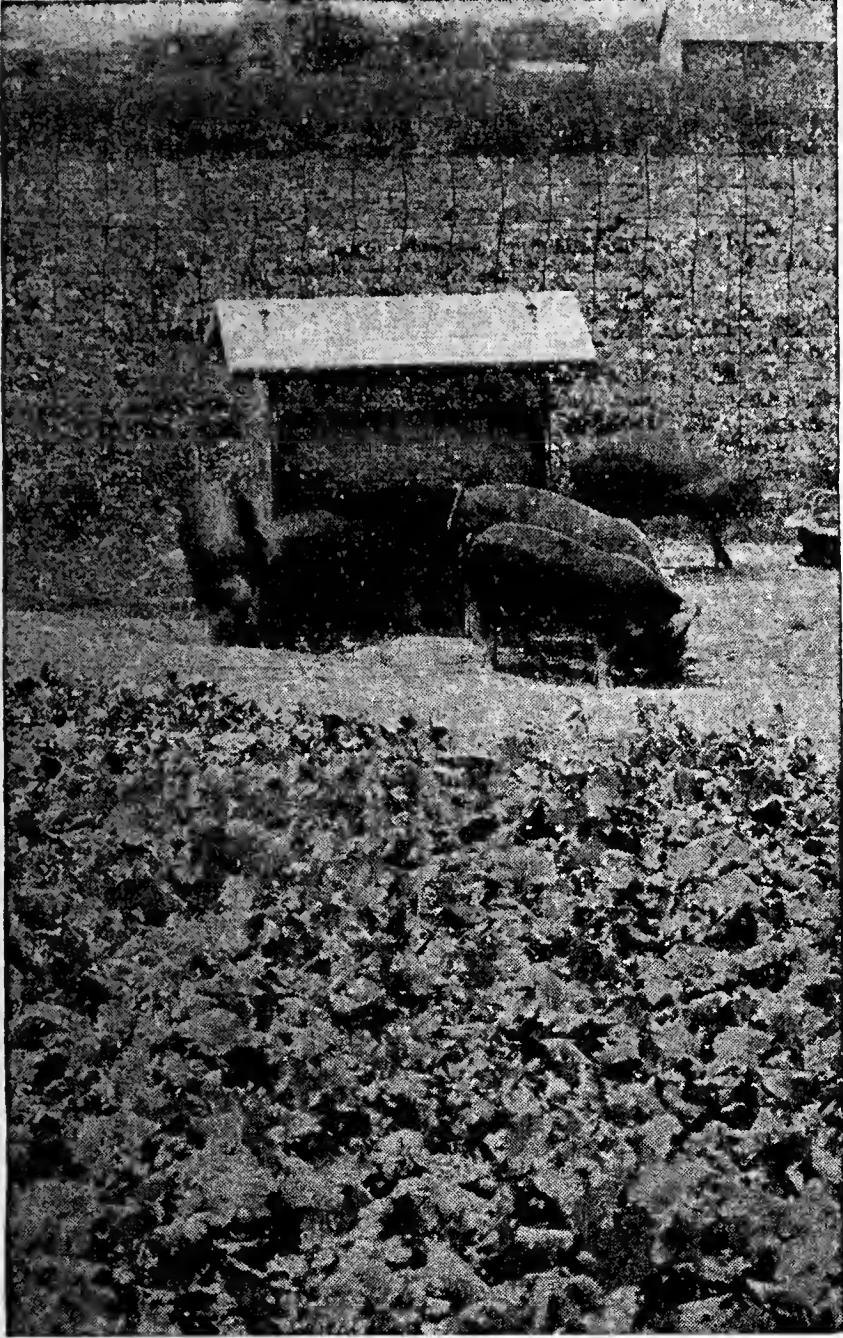
## Winter Barley

Sow from September 1st to November 15th, 1¼ bushels per acre.

**BEARDED.** The Standard for years in the South as a grazing crop and much relished by all stock.

**BEARLESS.** Bred from bearded and most of beards removed, usually about 85 percent beardless, which makes it better to cut in dough stage for feed. Equally good for grazing.

**FALL PRICE LIST**—Ready September first. Quotes prices on Austrian Winter Peas, Vetches, Seed Barley, Rye, Wheat, Turf Oats, etc. **WRITE US FOR A COPY.**



Dwarf Essex Rape

## Jerusalem Artichoke

Fine for fattening hogs. They grow just like Irish potatoes. Every hog raiser should grow Artichokes; the hogs will harvest them without cost. Plant in 4-ft. rows any time in March or April, dropping the cut pieces 18 inches apart in the row. They will produce 200 to 300 bushels to the acre. It requires 3 bushels to plant 1 acre.

## Chufas

Earth almonds or grass nuts. Hogs not only fatten on them but the meat is sweeter than corn-fed. Inexpensive to harvest as the hogs do the work.

Plant on light sandy soils from April 1st to May 25th, in 3-ft. rows, dropping 2 or 3 Chufas 18 inches apart.

Chufas are easy to grow and make a prolific crop for hog raising. Plant 1 to 1½ pecks to the acre.

## Mammoth Russian Sunflower

Makes fine poultry feed, ensilage, and hog feed. Plant up to July 1st at rate 8 pounds to the acre. Plant and cultivate same as corn.

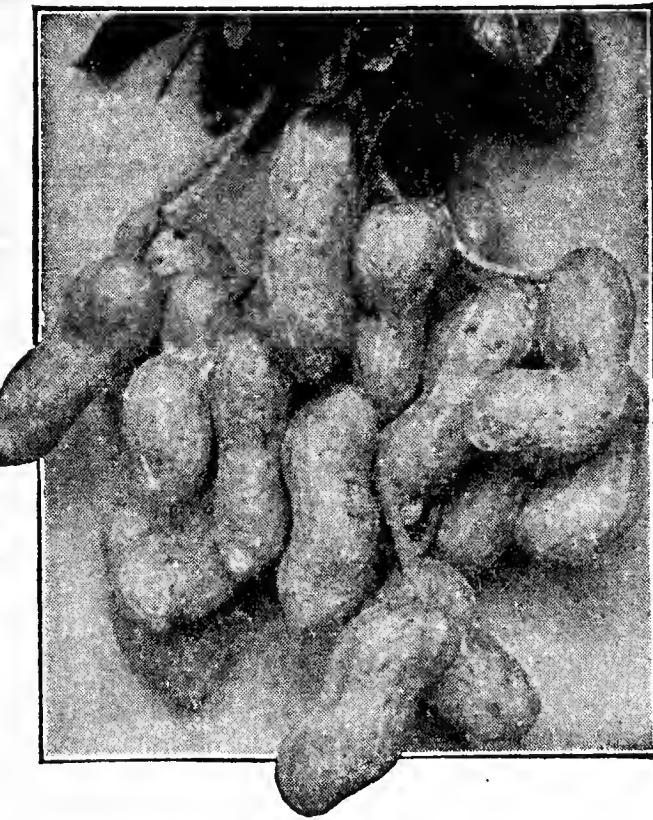
## Buckwheat

Sow 3 pecks to 1 bushel to the acre. It can be sown so late as to prove a profitable second crop to follow early peas, potatoes, etc. Good pasturage for bees.

## Broom Corn

**IMPROVED EVERGREEN BROOM CORN.** An excellent variety of good length; has fine straight straws. Sow in April, 1 gallon to the acre.

**SCARBROUGH DWARF BROOM CORN.** A new variety of Dwarf Broom Corn. The straw is erect, very straight and uniform in length. It always brings top prices on the market.

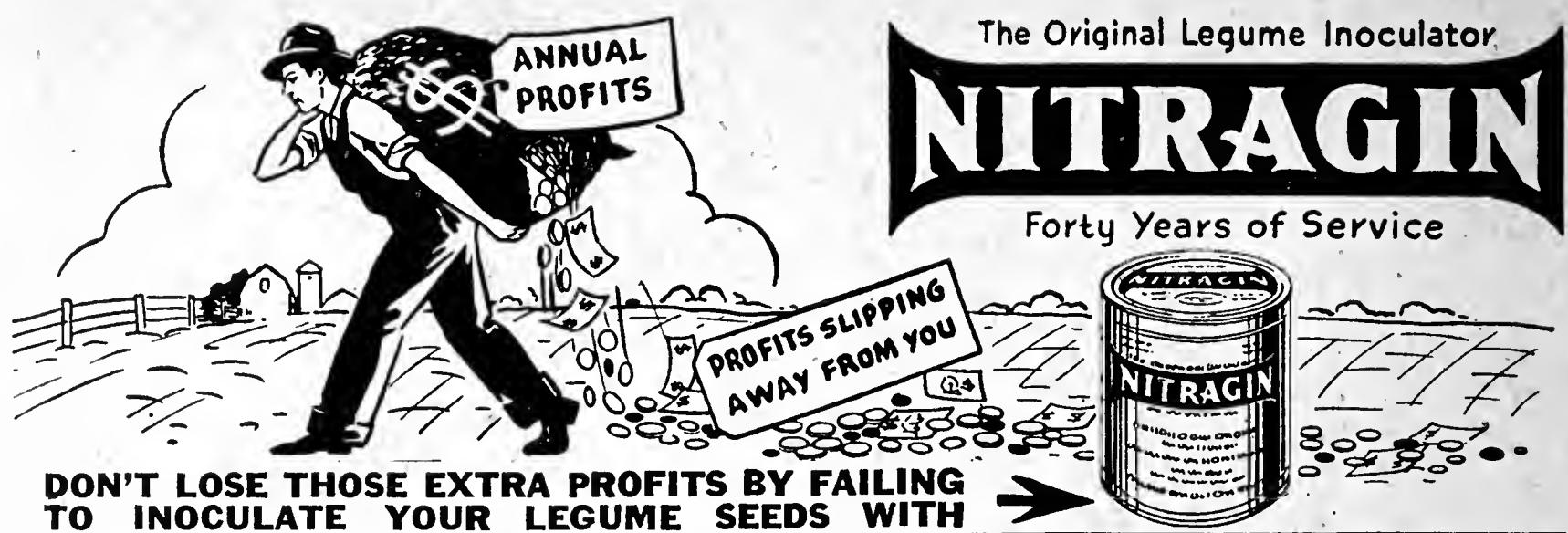


Spanish Peanuts

2%  
**CERESAN**  
used on  
**COTTON  
SEED**  
prevents

diseases such as  
leaf spot, wilt,  
and anthracnose.  
Makes possible  
earlier planting.

The use of  
2% Ceresan  
on your seed  
is equal to  
delinting methods  
and much  
lower in cost.  
1 lb., 70c,  
(treats 5 bushels);  
5-lb. can, \$3.00.  
By mail,  
1 lb., 80c;  
5 lbs., \$3.20.



**DON'T LOSE THOSE EXTRA PROFITS BY FAILING  
TO INOCULATE YOUR LEGUME SEEDS WITH**

#### **NITRAGIN INOCULATION PRICES**

When Ordering, **ALWAYS** State Name of Seed

##### **ALFALFA, all CLOVERS**

Size	Retail	Size	Retail
1/2 bu. ea.....	\$.30	1 bu. ea.....	.50
1 bu. ea.....	.50	2 bu. ea.....	.50
2 1/2 bu. ea.....	1.00	5 bu. ea.....	1.00

##### **PEAS (All Varieties)**

##### **VETCHES (All Varieties)**

1/2 bu. ea.....	\$.25
1 bu. ea.....	.40
1 1/2 bu. ea.....	.60
5 bu. ea.....	1.70
12 1/2 bu. ea.....	4.00

##### **BEANS**

##### **String, Wax, Kidney**

1/2 bu. ea.....	\$.25
1 bu. ea.....	.40
5 bu. ea.....	1.70

##### **LESPEDIZA**

Size	Retail
1 bu. ea.....	\$.30
2 bu. ea.....	.50
5 bu. ea.....	1.00

##### **SOYBEANS, LIMA BEANS, COW PEAS and PEANUTS**

1 bu. ea.....	\$.30
2 bu. ea.....	.50
5 bu. ea.....	1.00
10 bu. ea.....	1.60
25 bu. ea.....	3.00

##### **GARDEN SIZE**

##### **Garden Peas and Beans**

Enough for 4 lbs. seed	Retail Price 10c each.
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#### **BUILD UP YOUR SOIL**

**Inoculate Your Legumes with NITRAGIN**

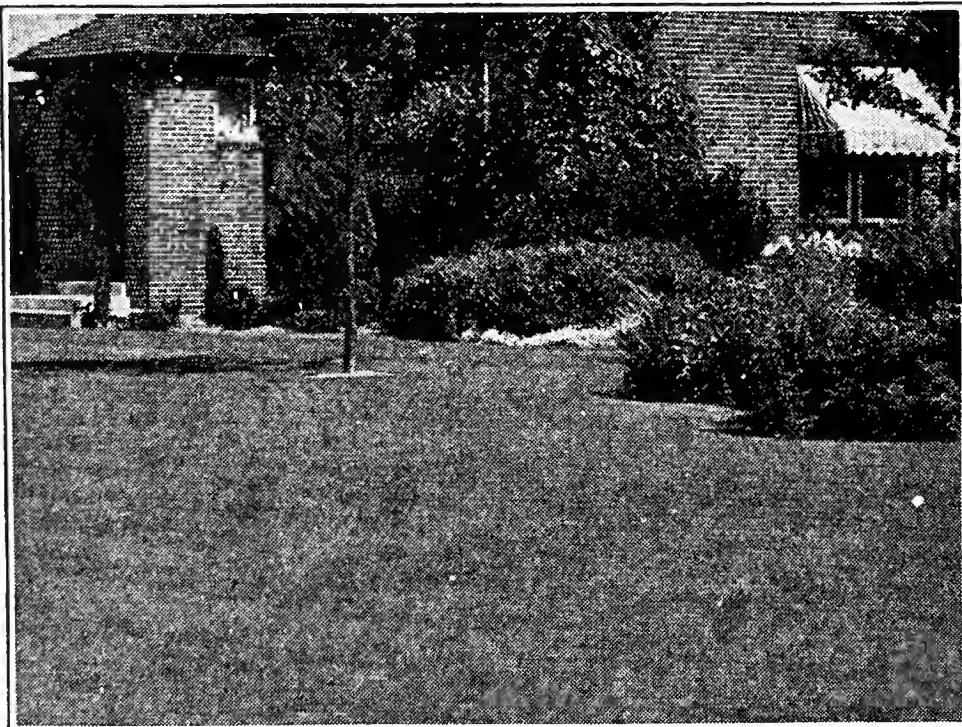
Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders!

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play Safe!

#### **INOCULATE WITH NITRAGIN**

NITRAGIN is an approved, moist humus culture—tested and guaranteed—easy to apply—packed with Billions of fresh bacteria—the cheapest legume crop insurance money can buy. Directions on every can.

**NITRAGIN — the Oldest and Most Widely Used Inoculator in America**



*Forget Lady Luck . . . Use*

**VIGORO** *and Be Sure!*

The seed you use, the time you plant, and the method of planting you follow are all very important in achieving the beautiful garden you desire. Use our high test seeds and plant them right . . . but don't stop there!

*Make sure that the young plants will find ample nourishment when they develop feeding roots.*



Scientists have shown that all plants require 11 different food elements from the soil if they are to have normal growth and development. That's why we recommend VIGORO for everything you grow. Vigoro, the complete, balanced plant food made by Swift,

contains every one of these 11 needed elements in proper proportion.

Vigoro is clean, sanitary, and odorless . . . and it's the most economical plant food you can buy! Use it at the rate of 4 pounds per 100 square feet of lawn or garden area.

100-lb. bag . . . \$4.00  
50-lb. bag . . . 2.50  
25-lb. bag . . . 1.50  
10-lb. pkg . . . .85  
5-lb. pkg . . . .45  
1-lb. pkg . . . .10  
F.O.B. Memphis, Tenn.

**VIGORO**  
*Complete plant food*

By mail, 1 lb., 18c; 5 lbs., 65c; 10 lbs., \$1.10.

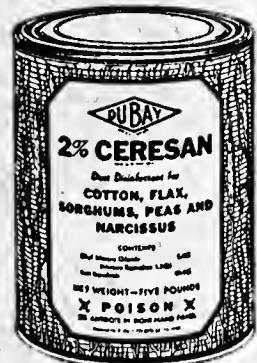
# DU BAY

## SEED DISINFECTANTS

*Increase Crop Profits  
Reduce Disease Losses*

Federal and state agricultural authorities and farm papers now advise seed treatment and, in many cases, actually urge the use of Du Bay Disinfectants. Invest a few cents in Du Bay treatment this year, and see how much more profit you'll get in return.

### A Treatment for Cotton and Other Major Crops



Bigger cotton yields and more profit with 2% CERESAN. Cotton States Authorities report big profit increases with 2% Ceresan cotton seed treatment — North Carolina, \$13.08 an acre; South Carolina, \$9.08 an acre; Texas, \$6.30 an acre. Dusted on seed, 2% Ceresan reduces seed rotting and damping-off, gives growers more uniform stands with less seed. In 40 recent tests, 2% Ceresan increased the average stand 59.8% before chopping; 30.8% even after chopping—and increased the average yield 16.4%. Saving in seed and replanting expense alone easily pays the small cost of 2% Ceresan. One pound treats 5 to 6 bushels. Prices: 1 lb., 70c; 5 lbs., \$3.00. Postpaid, 1 lb., 80c; 5 lbs., \$3.20. Not prepaid, 25-lb. pail, \$12.75; 100-lb. drum, \$47.60; 300-lb. drum, \$130.05.



drilling, no drill only about half the cost of other dust treatments. One pound treats 32 bushels of seed grain. Prices: 1 lb., 70c; 5 lbs., \$3.00; 25-lb. pail, \$12.75. Postpaid, 1 lb., 80c; 5 lbs., \$3.20.



4 ozs., 45c; 1 lb., \$1.50; 5 lbs., \$6.75. Postpaid, 4 ozs., 50c; 1 lb., \$1.60; 5 lbs., \$6.95.

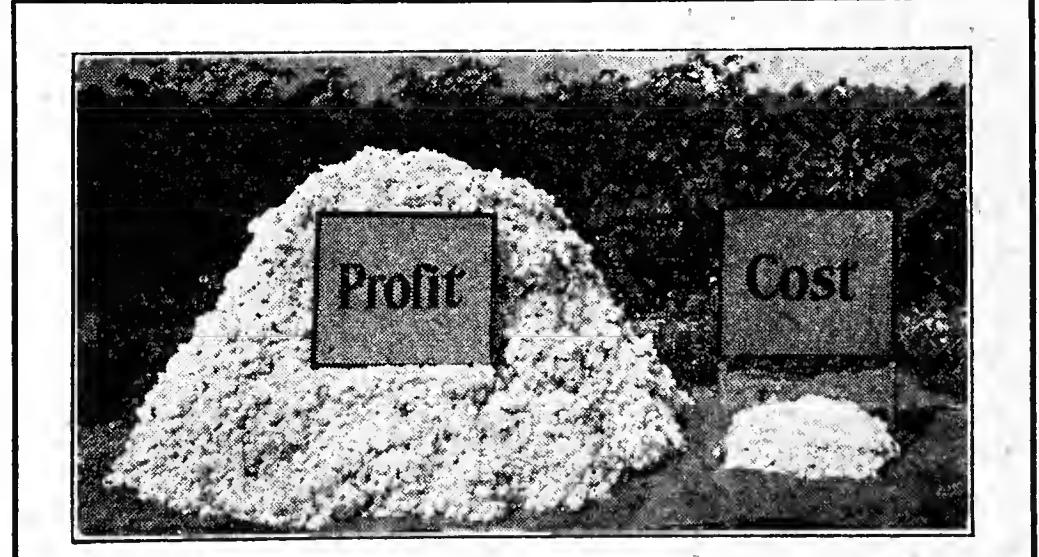
**Special Small Sizes** Semesan for Flower and Garden Seed, 1/3-oz. pkg. (treats 5 lbs. of seed), 10c; postpaid, 15c. Semesan Jr. for Garden and Field Corn, 2-oz. pkg. (treats 1 bu. of seed corn), 15c; postpaid, 20c.



Make sure of a better corn yield by treating seed with SEMESAN JR. Seed corn treatment with Semesan Jr. amounts to **real crop insurance**. At the extremely low cost of 1 1/2 cents an acre, it reduces seed rotting, checks seedling blight and certain seed-borne rots of root and stalk—gives corn the healthy start necessary for a big yield. Circular 444, Illinois, where the average yield increase has been about 3 bushels an acre, says Semesan Jr., is "one of the best disinfectants for seed corn now on the market. . . . Treats both seed field and sweet corn by the quick, easy dusting method. Only 2 ounces needed per bushel. Prices: 4 ozs., 30c; 1 lb., 75c; 5 lbs., \$3.25. Postpaid, 4 ozs., 35c; 1 lb., 85c; 5 lbs., \$3.45.



Disease control—better stands—sturdier plants with SEMESAN. Don't trust to luck for success with vegetables and flowers. Do what you can to control conditions. Treat your seeds, corms, bulbs, and seedlings with Semesan! Used as a dust or in solutions with water, Semesan reduces seed rotting and damping-off, is highly effective against many seed-borne diseases, even prevents contamination of the soil by certain seed-borne diseases. One ounce treats 15 to 30 pounds of seeds at a cost of 1/4 cent to 1 cent a pound of seed. Prices: 2 ozs., 35c; 1 lb., \$2.25; 5 lbs., \$9.90. Postpaid, 2 ozs., 40c; 1 lb., \$2.35; 5 lbs., \$10.10.



2% Ceresan Has Increased the Yield of Cotton at Rate of 190 Pounds per Acre.

**TREAT SEEDS EVERY YEAR -IT PAYS**

# Russell-Heckle's Top Notch Seeds

Are tested, of strong vitality and true to name. They are as good as can be obtained from any other source and are sold at very reasonable prices.

Top Notch Seeds are guaranteed to give you entire satisfaction. Any single item that is not found entirely satisfactory will be re-

placed absolutely free of charge or we will refund every cent you paid for the seed, including carrying charges both ways.

Nothing, we feel sure, could be fairer. We accept no responsibility for the crop or its value except only to the extent of amount of money you paid for the seeds.

## BUSH BEANS

**Culture**—1 lb. of seed will sow 100 feet of row; 60 lbs. will plant one acre. Begin planting in this section about the middle of March and make plantings three or four weeks apart up to September 1st. This will give green Beans all through the season. Keep young Beans picked—do not let them go to seed; it will prolong the bearing season of the plants.

Sow in drills 2 to 3 feet apart, dropping a Bean every 3 to 4 inches, cover about 1 inch, plant in good, loamy soil, avoid heavy clay or cold places, cultivate often until vines begin to bloom. Dust or spray plants when 10 inches high, to prevent the Mexican bean beetle, with Slug Shot or Garden Guard.

**BOUNTIFUL.** 48 days. Is the earliest of the green varieties. A very productive Bean; pods are about 5 inches long, straight, handsome, light green and flat.

**BURPEE'S STRINGLESS GREEN POD.** 52 days. One of the finest green pod varieties for home garden, market gardener and canner. Pods round, medium green, 5½ inches long, slightly curved, thick, meaty and juicy; perfectly stringless. Seeds coffee-brown.

### Prices on Any of the Bush Beans on This Page

Postpaid, ¼ lb., 10c; ½ lb., 15c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 85c; 7½ lbs., \$1.15. Not prepaid, ½ lb., 10c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 65c; 7½ lbs., 90c.

Prices on larger quantities are quoted on our Green Ink List enclosed.

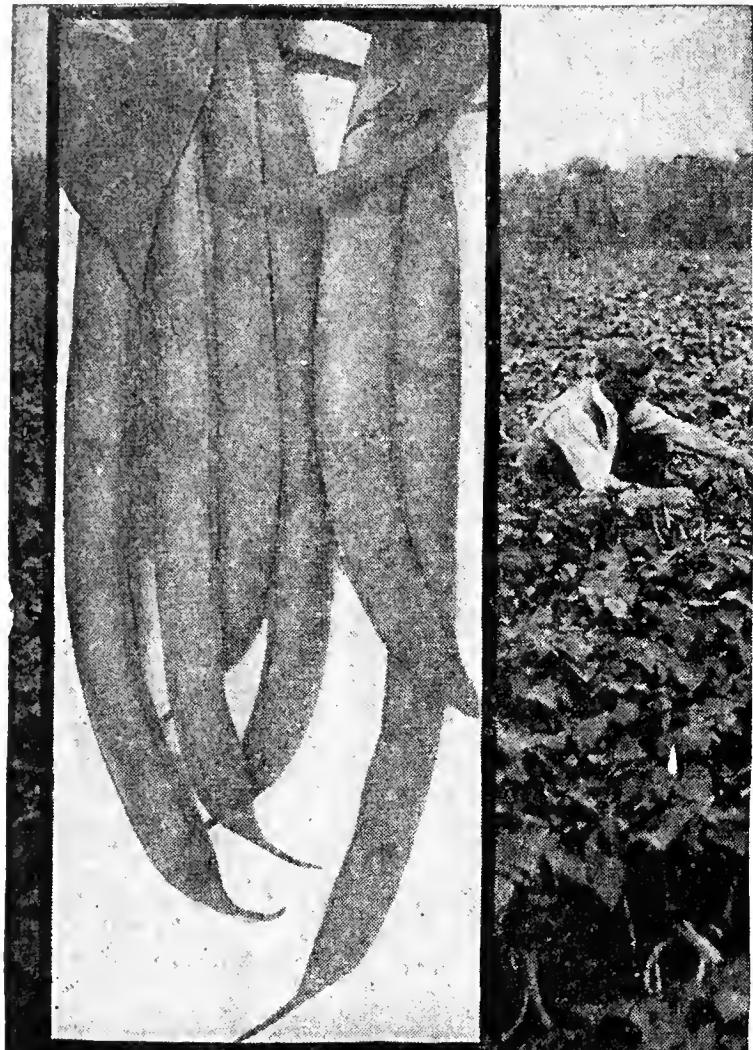
**FULL MEASURE BUSH BEANS.** 52 days. A fine green podded bush Bean of handsome appearance with round green beans measuring 5 to 5½ inches long and ¾ inch thick. They are brittle, tender, fleshy and stringless. Seed reddish brown, splashed with pale buff.

**GIANT STRINGLESS GREEN POD.** 53 days. An excellent variety. Pods round, medium green, 6 inches long, fairly straight, brittle, very fleshy and entirely stringless. Seeds light brown.

**IMPROVED EARLY RED VALENTINE.** Plant medium size, erect, very productive. Pods 4 to 5 inches long, medium green, round, curved, slim with crease in back; very fleshy, crisp and tender. Ready to pick in 52 days.

**IMPROVED GOLDEN WAX.** 53 days. A real early wax pod stringless type that is standard for the home garden. Superior quality, flat, straight pods, 4 inches long. Seeds white and purple.

**PROLIFIC BLACK WAX.** 52 days. Very early and productive; pods large, yellow and round, five to six inches long, strictly stringless, very brittle and of excellent quality.



Burpee's Stringless Green Pod

**SURE CROP WAX.** 57 days. Popular market and home variety. Rust-proof and prolific, pods golden yellow, flat, 6½ inches long. Black seeds.

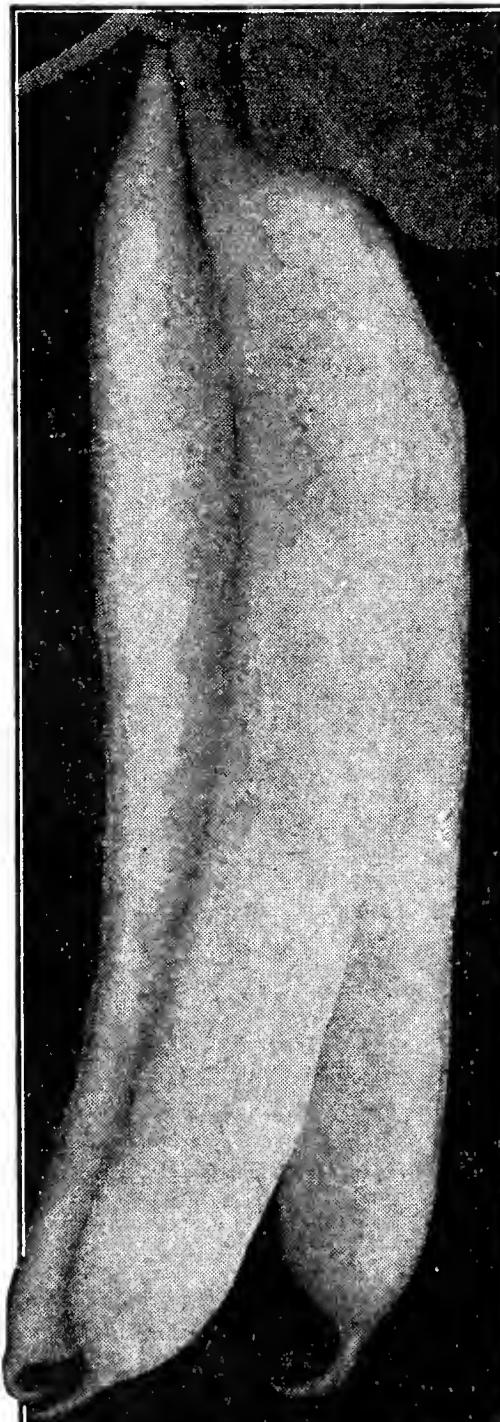
**STRINGLESS BLACK VALENTINE.** 53 days. This green pod Bean is typically Black Valentine. Has all the sturdy characteristics which popularized Black Valentine as a producer and shipper; has long, practically straight oval pods of good color and texture and is completely stringless.

**TENDERGREEN.** 54 days. This is a new Bush Bean of utmost value. The plants make a strong and vigorous growth. The pods grow 6 to 7 inches long. Round, green, extremely meaty, and tender. Even when fully grown they are absolutely stringless.

**TENNESSEE GREEN POD.** 54 days. Very popular in the South. Plant medium large, spreading, hardy and productive. Pods flat, broad and quite irregular in shape, medium green, 6 to 7 inches long, curved, slightly stringy, but of good flavor.



Inoculate your Bean seed before planting; the trial size Nitragin only costs a dime. The use of Nitragin increases the crop, and hastens the growth. You will be well pleased with the results of Nitragin treatment.



Improved Golden Wax



Tendergreen

# POLE or RUNNING BEANS

**Culture**—Plant two weeks after the Bush varieties, when the ground begins to warm up. Pole Beans can be planted every three or four weeks up to August 20th, and they will make a crop. Fall Beans are always tender. Have rows 3 to 4 feet apart; 2 pounds will plant 150 hills. Drop two seeds  $1\frac{1}{2}$  to 2 feet apart, cover one inch, cultivate as needed. For market use it requires 18 to 20 pounds to plant an acre. Pole Beans can also be planted on wire fences or on a trellis. Plant 2 feet apart;  $\frac{1}{2}$  lb. of seed will plant 100 feet of fence row. When planting in corn, drop two or three seeds to every hill when corn is 12 inches high. Inoculate seed with Nitragin to make better yields.

**IDEAL MARKET.** 58 days. Particularly desirable for home garden and truckers, being a week earlier than Kentucky Wonder. Plant hardy and vigorous. Pods round, deep green, 6 inches long, slightly curved, meaty, tender and stringless when young. Seeds solid black.

**KENTUCKY WONDER.** 65 days. The best of all and most popular of the green-podded running Beans. Unexcelled for home, market garden and for canning. Plant a hardy, strong climber that continues to bear until frost. Pods round, 8 to 10 in. long, curved and saddle-backed; stringless when young, very fleshy, fiberless, brittle and of superb flavor when cooked.

**KENTUCKY WONDER WAX.** 76 days. A heavy yielding wax-podded pole Bean, for home or market gardens. Curved, yellow, flat pods grow 10 inches long, meaty and of good flavor, but show strings.

**McCASLAN.** 65 days. An early prolific Bean, excellent for home market as a snap or dry shell Bean. Pods deep green, 8 inches long, slightly flattened, almost stringless and of fine flavor. If kept closely picked, they will bear until frost.

## For Mexican Bean Beetles

Dust or spray vines before blooming with Magnesium Arsenate, Slug Shot or Garden Guard.

**SCOTIA or STRIPED CREASEBACK.** (Cornfield). A very hardy and productive cornfield Bean. Pods  $6\frac{1}{2}$  to 7 inches long, round, straight and creasebacked; slightly stringy, very fleshy, fine grained, attractive and of good quality; color dark green. Ready for picking in 72 days.

**TENNESSEE WONDER.** 70 days. The largest and handsomest of the vining varieties. Plant medium, good climber and moderately productive. Pods round, light green, 8 inches long, straight, creasebacked, fleshy, brittle and tender, stringless when young.

**WHITE CREASEBACK.** An extremely early Pole Bean. Vines small to medium and wonderfully productive, bearing pods in clusters of from 4 to 12 and medium in length. An excellent shipper. Ready to pick in 63 days. Seeds white, excellent for baking.

**WHITE-SEEDED KENTUCKY WONDER.** 78 days. Similar in growth to the Kentucky Wonder, but the pods are long, straight and entirely stringless. The white beans are also fine for winter use.

Prices on any of the Pole Beans on this page except where noted otherwise:

Postpaid,  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 95c;  $7\frac{1}{2}$  lbs., \$1.25.

Not prepaid,  $\frac{1}{2}$  lb., 10c; 1 lb., 20c; 2 lbs.,

35c; 5 lbs., 75c;  $7\frac{1}{2}$  lbs., \$1.00.

For prices on larger quantities see Green Ink Price list enclosed.

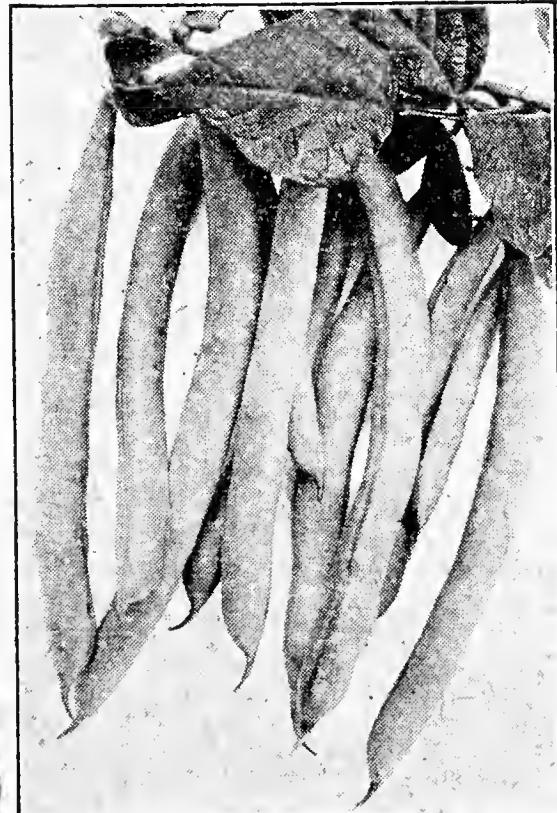
McCaslan

## Market Gardeners

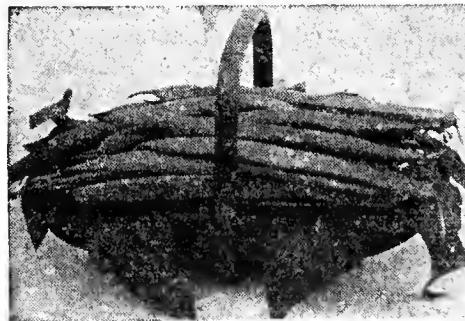
are entitled to quantity prices.

See our Green Ink List for prices on larger quantities. If you grow for market, you

**ASPARAGUS YARD LONG BEANS.** 80 days. This is a most unusual green-podded snap Bean, often called Yard Long, though the pods usually do not grow more than 2 feet in length. The yield is truly astonishing. The pods are palatable and tasty and should be picked while still young. The seeds are brown. Postpaid,  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 50c. Not prepaid,  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c.



Kentucky Wonder



Scotia or Striped Creaseback Cornfield Bean



White Creaseback

## Top Notch Bean Collection

These 5 varieties

ONLY ..... 60c

- $\frac{1}{2}$  lb. Burpee Stringless Bush Beans
- $\frac{1}{2}$  lb. Kentucky Wonder Pole Beans
- $\frac{1}{2}$  lb. Henderson's Bush Lima Beans
- $\frac{1}{2}$  lb. Carolina or Sieva Pole Lima Beans
- $\frac{1}{2}$  lb. Scotia Striped Cornfield Beans

Regular value 85c, sent postpaid for only 60c.

# BUSH LIMA BEANS



**Culture**—Lima Beans grow best on rich, well drained, porous soil. Do not plant until danger of frost is over, the soil warm and moderately dry, and the nights quite warm, as Lima Beans are a tender vegetable. In most sections Limas are planted about two weeks after the first planting of bush or snap Beans. Plant in drills  $2\frac{1}{2}$  to 3 feet apart, spacing the seed 6 to 8 inches apart, and plant them edge-wise with the eye downwards. Cover 2 inches deep. Cultivate shallow and frequently until the plants blossom. Pick the pods as soon as the Beans are of edible size.  $\frac{1}{2}$  lb. will plant 75 feet of row; 45 to 60 lbs. to an acre.

**BURPEE'S IMPROVED BUSH LIMA.** 75 days. An improvement over the old Burpee's Bush Lima, slightly earlier and larger. Plant sturdy, vigorous and very productive. Pods 5 inches long, contain 3 to 4 beans, flat but thicker than Burpee's Bush.

**HENDERSON'S BUSH LIMA.** 70 days. The earliest variety. Ten days earlier than Burpee's Bush Lima. Sometimes called Baby Lima. Used largely by canners. Plant small, dark green, erect, bushy; pods flat, containing 3 to 4 flat, light green beans or seed, of excellent

flavor when ripe and dry. Best yields obtained on warm, sandy loam. Dry beans creamy white.

**JACKSON WONDER BUSH LIMA.** 65 days. This is also called Never Fail Bush Lima. The most prolific of all varieties; excellent, drought resistant and sure cropper. Pods about 3 inches long,  $\frac{3}{4}$  of an inch wide, filled with 3 or 4 beans, which are medium size, flat, light brown to purple, mottled, also good as a winter shell Bean.

**WOOD'S PROLIFIC BUSH LIMA.** Similar to Henderson's but slightly larger. Ready to pick in 72 days. Extremely prolific, of true bush form, and very early, beans white, valuable when fresh or dried.

Prices on any Bush Lima Beans described on this page:  
Postpaid,  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 95c; 7 $\frac{1}{2}$  lbs., \$1.25.  
Not prepaid,  $\frac{1}{2}$  lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c; 7 $\frac{1}{2}$  lbs., \$1.00.

## Pole Butter or Lima Beans

Jackson Wonder Bush Lima

**Culture**—One pound will plant 100 feet of row; 30 lbs., to the acre. Set poles 4 feet apart each way. Drop 4 to 6 beans in each hill; the large types with eye downward. Cover 1 to  $1\frac{1}{2}$  inches, thin to three plants when up. Plant after ground is warm in April and May. Late plantings can be made up to August 1st.

**CAROLINA or SIEVA.** Matures in 78 days. In the South this is familiarly known as the "Butter Bean." It is very early, vigorous and productive. The seeds are small and white but of good flavor.

**FLORIDA or SPECKLED CALICO POLE BUTTER BEAN.** This is undoubtedly the greatest yielding Pole Lima Bean known today. It commences to bear very early and bears continually until killed by frost. Matures in 82 days. It is an extra fine flavored Bean, both in the green state and when shelled dry for winter use. The beans are medium size, beautifully speckled or blotched dark red to black.

**KING OF THE GARDEN LIMA.** 88 days. An old favorite variety, bearing large dark green pods, with 4 to 5 large white beans of fine quality.

**LARGE WHITE LIMA.** 88 days. Beans greenish white, large size, matures late. The most productive variety for this section.

**WILLOW LEAF LIMA.** 90 days. A great yielder and fine flavored. The vines are vigorous with many short branches. The leaves are small, smooth, stiff, glossy and dark green. The pods are dark green, short, about three inches, curved. Seed small, flat and white.

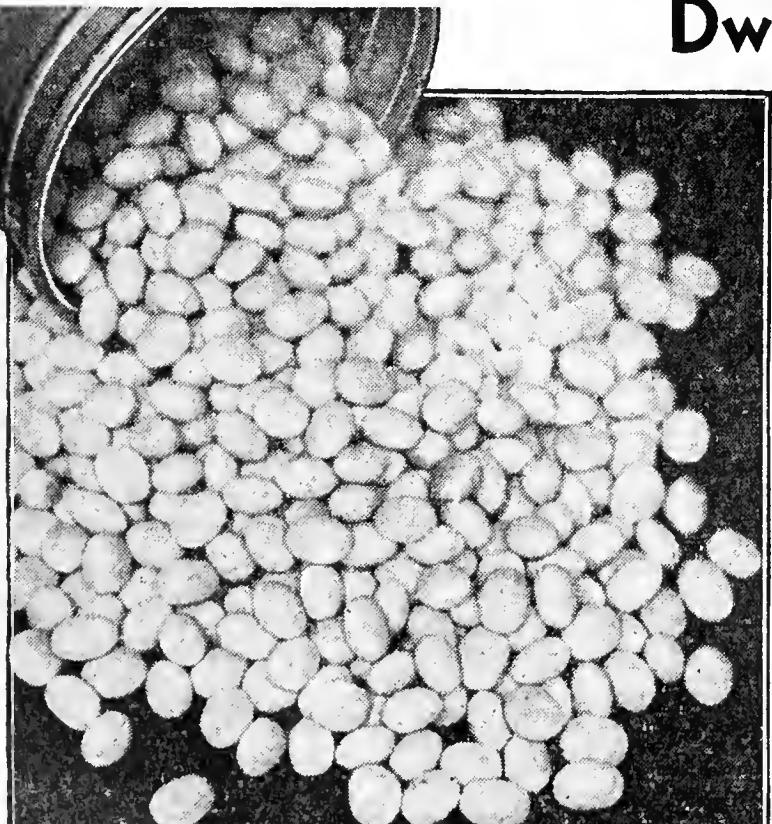
Prices on any Pole Lima Beans described on this page:  
Postpaid,  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 95c; 7 $\frac{1}{2}$  lbs., \$1.25.  
Not prepaid,  $\frac{1}{2}$  lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c; 7 $\frac{1}{2}$  lbs., \$1.00.



Carolina or Sieva



## Dwarf Shell or Field Beans



White Navy Beans

**Culture**—Do not plant until the middle of June. Plant in rows 2 to 3 feet apart, spacing the seed 2 to 3 inches apart, and cover 1 to 2 inches deep. One lb. for 100 feet; 60 to 75 lbs. per acre. Plants erect, semi-bush type. Beans mature in about 100 days.

**GREAT NORTHERN.** The standard dry shell Bean used for baking and soup. Vine large, slender, spreading with short runners, hardy and productive.

**PINTO.** A standard shell Bean, grows well in the South. Vine  $2\frac{1}{2}$  feet, vigorous and productive.

**RED KIDNEY.** One of the finest of all beans for baking. Very productive.

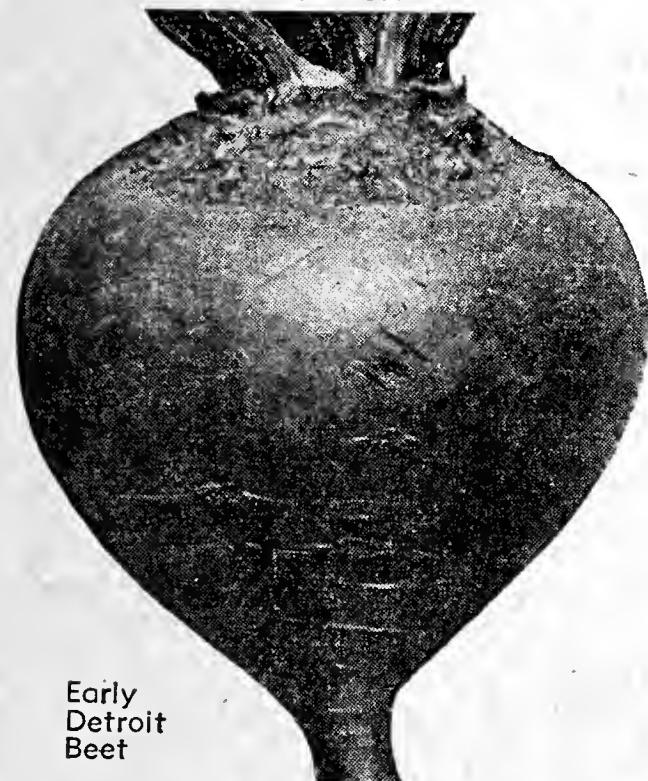
**WHITE NAVY BEAN.** This small shell Bean will out-yield all others. Excellent for use as baked beans. Plant large, spreading, with many runners.

Price, any of the above field beans:  
Postpaid,  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 2 lbs., 40c; 5 lbs., 80c; 7 $\frac{1}{2}$  lbs., \$1.10.  
Not prepaid,  $\frac{1}{2}$  lb., 10c; 1 lb., 20c; 2 lbs., 30c; 5 lbs., 60c; 7 $\frac{1}{2}$  lbs., 85c.

# TABLE BEETS



Crosby's Egyptian Beets



Early Detroit Beet



Lucullus Swiss Chard

## SWISS CHARD or Spinach Beet

**Culture**—Swiss Chard is a beet grown for its leaves. The midrib, when boiled, makes delicious greens or the leaves may be boiled and served as spinach. Sown in the spring the leaves are soon ready to eat and will continue to grow all through the summer and fall.

**LUCULLUS.** 52 to 62 days. A variety with curled leaves like a Savoy cabbage. The plant grows nearly 2 feet high and the stem and leaves are very large and of fine quality.

Postpaid, pkt., 5c; oz., 10c; 1/4 lb., 20c; 1/2 lb., 35c; 1 lb., 55c; 2 lbs., 90c; 5 lbs., \$1.95. Not prepaid, 1/2 lb., 30c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75.

**Culture**—For earliest use and market, sow seed of any round sort under glass, in February or March, and transplant to open ground in March or April. Seed for main crop may be sown in the early spring as soon as ground can be worked. For table Beets sow in drills 18 inches apart, and thin to stand 3 to 4 inches apart in the rows. A packet will sow a row about 25 feet long; use 1 ounce to 100 feet; 5 to 6 lbs. per acre. Make successional plantings and cultivate freely. They are fit for use in 35 to 65 days. Beet tops are much used for greens, being cooked like spinach.

**CROSBY'S EGYPTIAN.** 42 days. Medium size tops, roots flattened globe shape; flesh deep red, zoned lighter. Our strain of this quality Beet is a decided improvement on the older forms of Egyptian and we claim there is no better early garden Beet, as it increases in size so rapidly. The roots are larger and more globular though still somewhat flattened at the top, representing more or less of a turnip shape. The skin is a very deep red and the flesh is somewhat lighter in color.

**DETROIT DARK RED.** 50 days. A highly bred, globe-shaped Beet for home or market. We offer a special strain of this famous Beet. It excels in uniformity of size, shape and color, being suited for home use, market sales, storing, shipping and canning. The roots are of medium size, smooth, perfectly globe-shaped, and of attractive appearance. The color of the flesh is a most intense deep red, showing no signs of any zones after cooking. It remains tender throughout and free from fiber until fully grown.

**EARLY BLOOD TURNIP.** 60 days. A medium early variety, good for summer or winter use. Roots grow to a good marketable size; flesh is deep red and of good quality.

**ECLIPSE BLOOD TURNIP.** 55 days. An old favorite; smooth, bright red roots, round or slightly top-shaped. The flesh is bright red, zoned with pink. Very sweet, crisp and tender when young.

**EARLY WONDER.** 40 days. Also known as Boston Crosby. Early, tender and sweet, dark red roots. This early Beet is the result of yearly selection made over a period of time. As we offer it today it seems almost impossible to still further improve its appearance and excellent quality. It is probably the earliest of the small table Beets for outside growing. The roots are flat to globe in shape, of a beautiful deep red color, and of medium size roots and tops.

**PERFECTED EARLY DETROIT.** A strain of recent development—comes 92 percent true to dark red and does not show white rings. Ready for market in 50 days. Roots smooth, globe shaped and top slightly shorter than regular Detroit, making it very fine for bunching.

BEET PLANTS PRICED ON PAGE 54.

### Prices of Table Beets

Any variety:  
Postpaid, pkt., 5c; oz., 10c; 1/4 lb., 25c;  
1/2 lb., 35c; 1 lb., 55c; 5 lbs., \$1.95; 10 lbs.,  
\$3.45.  
Not prepaid, 1/4 lb., 20c; 1/2 lb., 30c;  
1 lb., 45c; 5 lbs., \$1.75; 10 lbs., \$3.20.

### Special Offer

Prices Postpaid.

Select any seven 5c pkts. for ..... \$0.25  
Select any fifteen 5c pkts. for ..... .50  
Select any four 10c pkts. for ..... .30  
Select any seven 10c pkts. for ..... .50

## MANGELS or Stock Beets

Mangels yield more tons of feed per acre than any other crop, often yielding 18 to 20 tons of roots per acre, some of the roots weighing 20 to 30 lbs. each. They should be fed regularly to all stock. They not only increase milk production in dairy cows, but tend to promote the development of large, robust, fleshy animals that bring profit to the stockman.

**Culture**—One ounce to 50 feet of row, 5 to 6 pounds per acre. Sow in drills 2 1/2 feet apart; when about three inches high, thin to 10 inches apart in the row. Mangels do best on rich, deep loam, but can be grown on a variety of soils. It requires about 120 days to grow Mangels.

**GIANT FEEDING SUGAR.** Desirable for stock feeding, being especially rich in sugar.

**GOLDEN TANKARD MANGEL.** Yields enormous crops; flesh deep orange-yellow; oblong in shape.

**MAMMOTH LONG RED MANGEL.** Grows to an enormous size in deep, rich soil.

**KLEIN WANZLEBEN SUGAR.** Skin white with a tinge of gray; flesh very rich in sugar.

Prices, any of the above 4 varieties of Mangel or Stock Beets:

Postpaid, 1 oz., 10c; 1/4 lb., 15c; 1/2 lb., 25c; 1 lb., 45c; 2 lbs., 75c; 5 lbs., \$1.55; 10 lbs., \$2.65.

Not prepaid, 1/2 lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.35; 10 lbs., \$2.40.



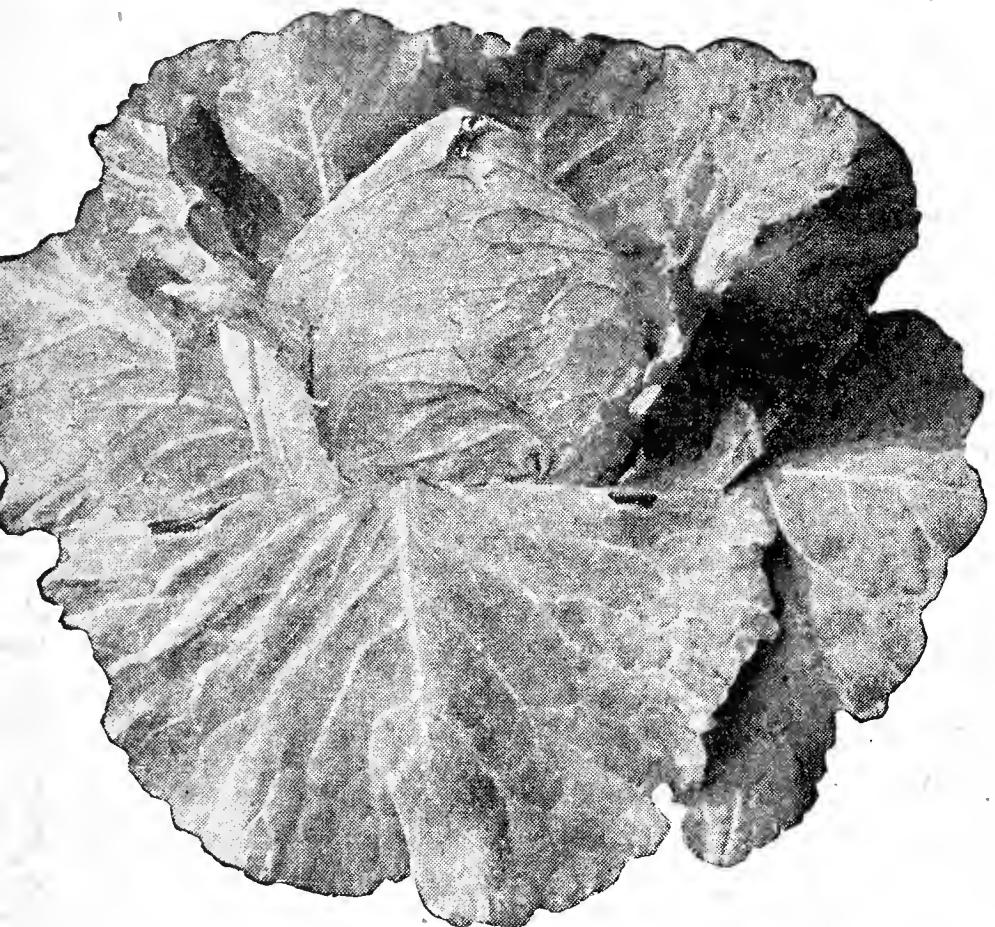
Mammoth Long Red Mangel

Mangels and Sugar Beets yield heavy crops, both are fine for cattle and hogs.

# CABBAGE



All Seasons



Charleston or Large Wakefield

## Chinese Celery Cabbage

Chinese Cabbage has a distinct taste and flavor; when cooked it can be served like spinach, using the green part of the leaves. The middle ribs are very palatable cooked like asparagus. Raw, it is used like lettuce or cold slaw and is very tender and delicious.

**Culture**—Sow in March and April; also in July and August for fall crop; transplant and treat like cabbage. Tie up when plants begin to head.

**PE-TSAI.** 70 days. Grows upright, forms pure white heart.

**CHIHILI.** Early and sure heading, well blanching, crisp and tender.



Cabbage Plant

### Frost Proof Cabbage Plants

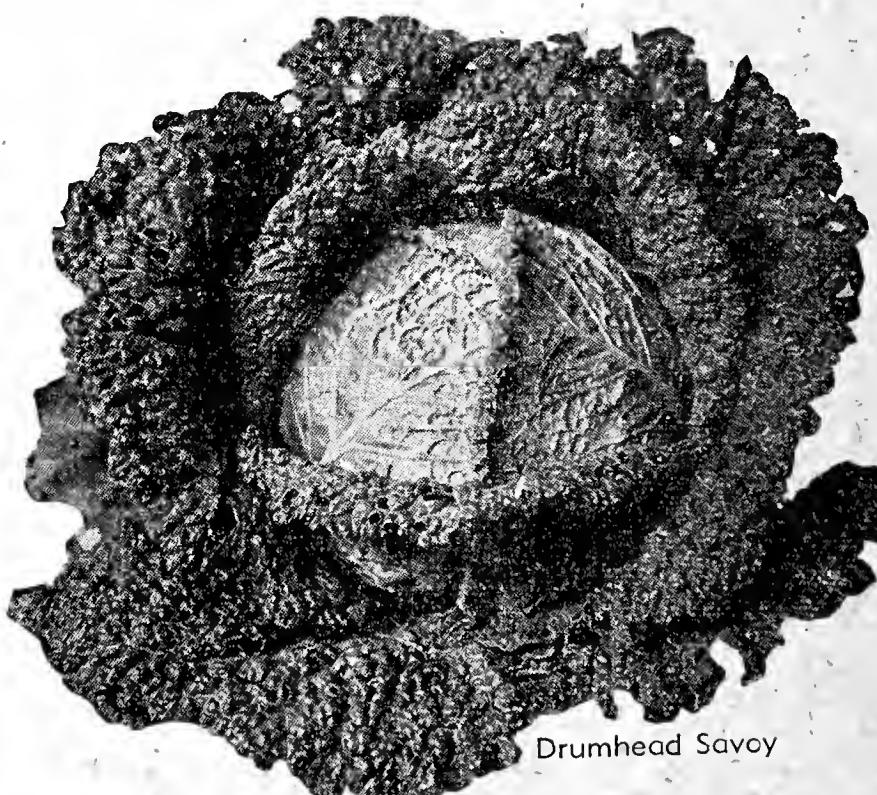
Ready for shipment in February.

Postpaid, 100, 35c; 200, 60c; 500, \$1.20; 1000, \$1.85.

Quantity prices quoted on Green Ink List enclosed.



Chihili



Drumhead Savoy

**Culture**—For very early use sow in January or February in hotbeds; put out when the plants are strong enough into other hotbeds, or sow in cold frames in March; transplant when danger from killing frost is past, to open ground in rows 2 feet apart and 18 inches in the row. For a succession sow in the open ground the last of March or early in April. The autumn and winter varieties sow in April or early in May, in shallow drills 3 or 4 inches apart; transplant early in July in rows 2½ feet apart and 2 feet in the row. Cabbage succeeds best in fresh, rich soil, well manured and deeply dug or plowed. One ounce of seed produces about 2000 plants; one-half pound will produce enough plants to set an acre. We have indicated the average number of days required to produce heads from the date the young plants are set in the field.

**COPENHAGEN MARKET.** 66 days. The heads average about 10 pounds each in weight, are very solid and of fine quality. It matures as early as Charleston Wakefield. Postpaid, pvt., 5c; oz., 25c; 2 ozs., 35c; ¼ lb., 50c; ½ lb., 70c; 1 lb., \$1.10; 5 lbs., \$4.70; 10 lbs., \$8.75. Not prepaid, ½ lb., 65c; 1 lb., \$1.00; 5 lbs., \$4.50; 10 lbs., \$8.50.

**GOLDEN ACRE.** 64 days. This early, round-headed Cabbage closely resembles Copenhagen Market in type. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Postpaid, pvt., 5c; oz., 25c; 2 ozs., 35c; ¼ lb., 50c; ½ lb., 75c; 1 lb., \$1.20; 5 lbs., \$5.20; 10 lbs., \$9.25. Not prepaid, ¼ lb., 40c; ½ lb., 70c; 1 lb., \$1.10; 5 lbs., \$5.00; 10 lbs., \$9.00.

**ALL HEAD EARLY.** 75 days. One of the earliest large Cabbages. A Flat Dutch type of compact growth and heavy yield. Larger than Flat Dutch and a little later. Remarkably uniform size and shape.

**ALL SEASONS.** 90 days. The name best describes this variety as it is sureheaded, of the Flat Dutch type of heads and a first class main crop. The heads are very large, extremely hard and solid.

**CHARLESTON or LARGE WAKEFIELD.** 71 days. A selection from Early Jersey Wakefield, producing a larger and more solid head. Charleston Wakefield is more uniform in type and a much better shipping variety; of fine quality.

**EARLY FLAT DUTCH.** 72 days. Excellent second-early variety, producing fine large heads. Highly valued for the fine quality and ability to resist heat. Heads are round, flattened on top, measure 13 inches across and weigh from 10 to 12 pounds each. A favorite kind with many market growers.

**EARLY JERSEY WAKEFIELD.** 62 days. Dwarf, compact plants maturing very early. The heads are pyramidal in shape, having a blunted or rounded peak. Very sweet flavor. Small outside foliage and a uniform crop.

**LARGE LATE DRUMHEAD.** 105 days. A dependable heading variety, good winter keeper, solid and firm.

**LARGE LATE FLAT DUTCH.** 110 days. Remarkably large, solid heads of bluish green with a broad, flat surface and interior of fine quality; crisp, tender, white; a good keeper.

**LARGE DRUMHEAD SAVOY.** Matures in 90 days. Leaves curled, tender and delicately flavored when touched by frost. Heads flattened, nearly round; leaves coarsely crimped, bluish green. A favorite for fall and winter market. Sow seed in June and July. Set in the open in September.

**SUCCESSION.** 84 days. A sure heading variety; fine for market. Heads solid, compact, large and flattened, will average 12 pounds.

### CABBAGE SEED PRICES

Prices on all varieties of Cabbage seed, excepting Copenhagen and Golden Acre, uniform as follows: Postpaid, pvt., 5c; oz., 20c; 2 ozs., 30c; ¼ lb., 45c; ½ lb., 60c; 1 lb., \$1.00; 5 lbs., \$4.20; 10 lbs., \$7.75. Not prepaid, ½ lb., 50c; 1 lb., 90c; 5 lbs., \$4.00; 10 lbs., \$7.50.

# CARROTS

**Culture**—The Carrot, whether used raw, fried, boiled or stewed, used alone or combined with other vegetable or meat is not surpassed in nutritive healthfulness by any vegetable. Plant Carrot seed from the time the soil can be worked in the spring till July, in 1- or 2-foot rows for hand cultivation or in 30-inch rows where a horse-drawn tool is used. Use 1 ounce of seed to 100 feet of row, 3 to 4 pounds to the acre, covering one-half inch deep and later thin to a 4-inch stand. Do not overlook the value of this crop as a stock food.

**DANVERS HALF-LONG.** 75 days. One of the favorite main crop varieties known by all. Very productive and used extensively by market gardeners, shippers and home gardeners. Roots bright deep orange, 6 to 7 inches long,  $1\frac{3}{4}$  inches thick, broad shoulders tapering to a blunt point. Flesh bright orange, tender, rich in flavor and very sweet.

**HALF-LONG SCARLET CHANTENAY.** 72 days. Market gardeners know this to be the perfect Carrot and one of the most salable market varieties. An excellent, all-purpose sort. Roots deep orange, smooth, 5 to 6 inches long,  $2\frac{1}{4}$  inches thick, broad shoulders gradually tapering and stump-rooted at the lower end. Flesh deep orange with distinct core.

**IMPERATOR.** 75 days. This new Carrot has already become very popular as it combines both attractive appearance with first class quality. The roots are 7 to 8 inches long, tapering gradually toward the tip. Rich orange color with indistinct core.

**IMPROVED LONG ORANGE.** 88 days. Roots reddish orange, 12 inches long, 2 inches thick, tapering to a point; flesh red-orange.

**MORSE'S BUNCHING.** An outstanding strain bred for market garden use and for shipping; also splendid home garden variety. It fills the demand for a longer type to compete on markets with California Carrots elongated under irrigation. The roots are 7 to  $8\frac{1}{2}$  inches long, graceful, smooth, and uniformly tapered to a semi-blunt end. Flesh is rich orange-red, extending to center of root, with indistinct core. Finest quality for table use.



Scarlet Chantenay

## SPECIAL OFFER

Select any 7—5c packets of seed for 25c.

Select any 4—10c packets of seed for 30c.

Select any 15—5c packets of seed for 50c.

Select any 7—10c packets of seed for 50c.

You can make your own selection. We will pay the postage.

# COLLARDS

**Culture**—Sow in spring  $\frac{1}{2}$  inch deep in 2½-foot rows, thin to 12 inches in the row. Late plantings for fall use should be made in June and July. Cultivate like cabbage; they are very hardy and easy to grow. One ounce will drill 200 feet of row or make 1000 plants. Use  $\frac{1}{2}$  to 2 lbs. to sow an acre in drills.

**GEORGIA WHITE CABBAGE.** 80 days. An improved type, producing compact plants 1½ feet tall with clusters of loose leaves, forming a small head of fine flavor.

**SOUTHERN or GEORGIA.** 80 days. The regular native blue stem variety which is very hardy and tender.

Prices either variety, postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 35c; 1 lb., 50c; 5 lbs., \$1.70. Not prepaid,  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.70.

# CUCUMBERS

**Culture**—One ounce to 50 hills; 2 to 3 pounds per acre. After danger of frost is past plant in hills 3 by 6 feet apart and thin to 3 plants to a hill. Seed can be planted in boxes or paper pots in a hotbed, but Cucumbers do not transplant readily unless a mass of soil adheres to the roots. Pick fruit as soon as large enough to use, do not allow any Cucumbers to ripen on the vines.

**A & C CUCUMBER.** A recent introduction that has met the approval of shippers and local gardeners. The vines are robust, producing an abundance of fancy fruits of vivid dark green color which is retained almost to full size. It is a white spine type, 10 inches long, 2½ inches thick, straight and slender, slightly tapered at both ends, very smooth and attractive.

**BOSTON PICKLE.** 60 days. Black-spined, thick and regular in shape.

**CHICAGO PICKLE.** 59 days. A productive type for early uniform pickles, valuable for slicing and pickling. Fruit medium green, black spined, 6½ inches long, 2½ inches thick, square ended.

**DAVIS PERFECT.** 65 days. The vines are healthy and vigorous, bearing smooth, glossy dark green fruits 9 to 10 inches long, 2½ inches thick and tapered at both ends.

**CLARK'S SPECIAL.** 64 days. Very dark green fruits, 7 to 9 inches in length.

**EARLY GREEN CLUSTER.** 56 days. Very prolific, setting its fruits in clusters.

**EARLY WHITE SPINE.** 60 days. Fruit medium green, smooth, fine for market.

**EVERBEARING.** 70 days. Kept picked will bear throughout the season; good pickle.

**IMPROVED LONG GREEN.** 66 days. Excellent for market or home gardens. Fruits 10 to 12 inches long, medium dark green, black spined, very desirable for slicing.

**STAY GREEN.** 52 days. Average 7 inches; fruits very deep green with white spines.

**STRAIGHT EIGHT.** Very symmetrical, about 8 inches in length and 1½ inches in diameter. The very best Cucumber for early market, vines vigorous and productive.

Prices—Any Variety of Cucumber Seed

Postpaid, pkt., 5c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 50c; 1 lb., 85c; 5 lbs., \$3.20. Not prepaid,  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 45c; 1 lb., 75c; 5 lbs., \$3.00.

Prices of all Carrot seed listed.

Postpaid pkt., 5c; oz., 15c; 2 ozs., 20c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 40c; 1 lb., 70c; 5 lbs., \$2.50. Not prepaid,  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 35c; 1 lb., 60c; 5 lbs., \$2.25.

# CAULIFLOWER

**Culture**—Sow in beds or boxes in January or February and transplant to the garden in March or April. Cultivate like cabbage. When half grown, tie leaves up to make white heads. 1 pkt. will produce 200 plants; 1 oz. will produce 1000 plants.

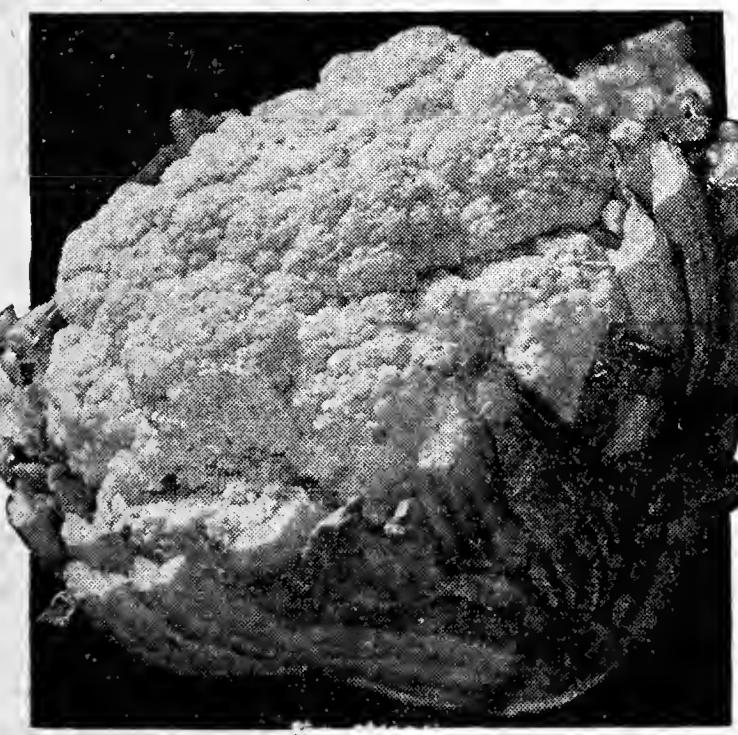
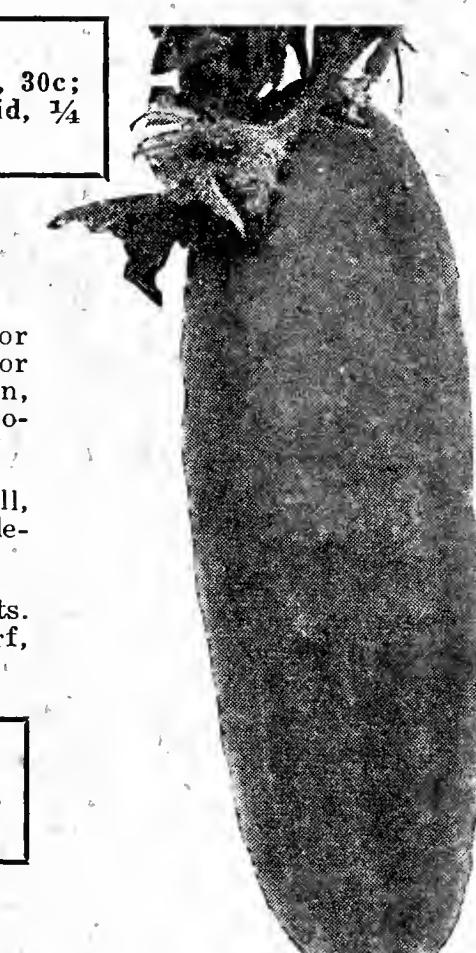
**DRY WEATHER.** Larger than Early Snowball, forms compact, solid heads in about 65 days, dependable in dry weather.

**EARLY SNOWBALL.** 55 days from plants. Forms large, solid white heads. Plants dwarf, which allows for close planting.

Prices either variety, pkt., 10c;  $\frac{1}{4}$  oz., 45c;  $\frac{1}{2}$  oz., 75c; 1 oz., \$1.25;  $\frac{1}{4}$  lb., \$3.00;  $\frac{1}{2}$  lb., \$5.50; postpaid.

Stay Green

A & C Cucumber



Dry Weather

# GARDEN AND SWEET CORN

**Culture.** Plant the garden Corns the 15th of March, Sugar Corns not until the first week in April. 1 lb. of corn will plant about 200 hills; 12 to 14 lbs. of seed will plant an acre. Make hills 3 feet each way, leaving 2 stalks to the hill. Make successive plantings every 3 weeks to have roasting ears all through the summer. Plant only in rich or well-fertilized soil.

**EXTRA EARLY ADAMS.** 54 days to table condition. Ears 5 inches long, grains white and tender, 12 to 14 rows.

**EARLY LARGE ADAMS.** Ready for roasting ears in 60 days, kernels white, fairly sweet and tender. Stalks 6 to 7 feet tall, ears 7 to 8 inches long, 12- to 14-rowed.

**TRUCKER'S FAVORITE.** Makes roasting ears in 70 days from planting. Ears 8 inches long, even rowed, tender and of fine quality, usually produces two good ears to each stalk. An excellent variety for field culture or for late planting to use as a garden crop.

Plant these when the ground is warm, not too soon, otherwise the seed will rot. For real quality, you should plant any of the following varieties of Sugar Corns.

**BARDEN'S WONDER BANTAM.** 72 days. Nearly as early as Golden Bantam but the ears are longer and heavier, sweet and of fine quality.

**COUNTRY GENTLEMAN.** 84 days. Kernels set irregularly on a small cob. The Shoe Peg grains are white, very sweet, tender and juicy.

**GOLDEN BANTAM.** 70 days. The most popular and best known of all the yellow Sugar Corns and has made a reputation for its earliness and delicious quality. It is used extensively by home gardeners, truckers and canners. Stalks dwarf, 4½ to 5 feet, ears 6 to 7 inches long, uniformly 8-rowed. Kernels broad, tender, sweet and of fine flavor. Many varieties of yellow corn have been bred since the introduction of Golden Bantam, but many customers still believe that this variety surpasses all in sweetness and distinct buttery flavor.

## Garden Corn

### Prices of Any of the Five Varieties of Corn Described

Postpaid, pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 35c; 5 lbs., 70c; 7 lbs., 85c. Not prepaid, ½ lb., 10c; 1 lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 7 lbs., 60c. Quantity prices given on our Green Ink List.

**IMPROVED ADAMS.** Ready for market in 64 days. Ears 8 to 9 inches long, 14 rows, grains pure white, sweet and tender.

**R. H. CO.'S EARLY SURPRISE.** Our stock is the original genuine Early Surprise. You can depend on getting it right from us. Ready 68 days to market stage, stalks 7 feet tall, ears 9 to 10 inches long, producing generally 2 good ears to a stalk. Grains white and stay tender longer than the average varieties of garden Corns. It also adapts itself as a fine early field Corn.

## Sugar Corn

### Prices of Sugar Corn on This Page, Excepting Top Cross Golden Bantam

Postpaid, pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 50c; 5 lbs., 85c; 10 lbs., \$1.50. Not prepaid, ½ lb., 15c; 1 lb., 25c; 2 lbs., 40c; 5 lbs., 65c; 10 lbs., \$1.20. Quantity prices on our Green Ink List.

**GOLDEN COLONEL.** The yellow grained Country Gentlemen; ears ready for the table in 86 days, grains deep, shoe-peg in shape, very sweet, and tender, ears average 7½ inches in length.

**LONG ISLAND BEAUTY.** A great big-eared, 16-rowed sugar corn of finest quality; grain white, sweet, juicy and tender and of the best flavor. Produces two ears, 9 to 10 inches long, to a stalk. Makes roasting ears in about 78 days.

**STOWELL'S EVERGREEN.** Ready for market in 82 days; stalk produces 2 good ears which are 9 to 10 inches long, grains

long in shape, white, tender and delicious. This is a good standard variety that will always please.

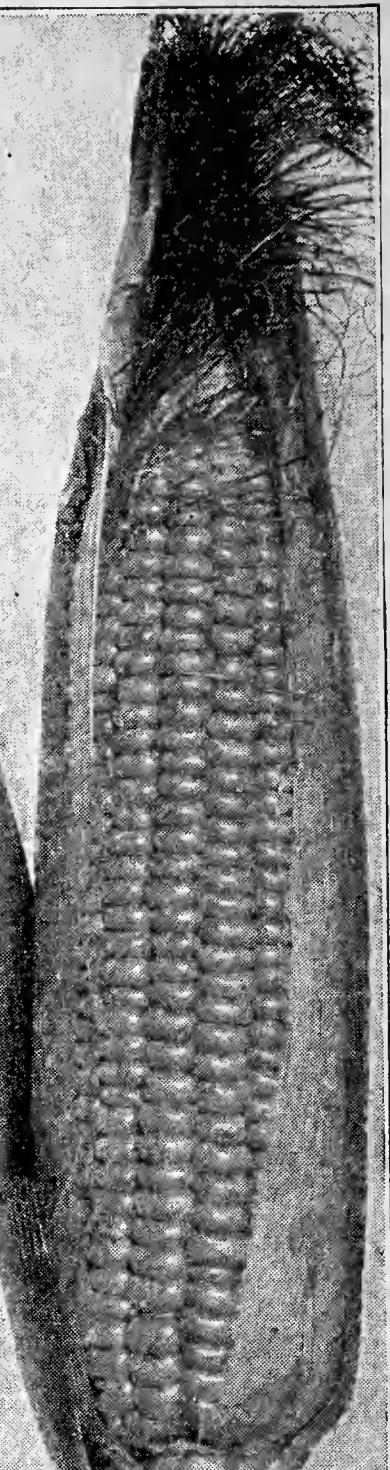
**WHIPPLE'S EARLY YELLOW.** 82 days. One of the best large-eared, second-early varieties. Stalks 7 feet; ears 8 inches, set with 12 to 14 rows of golden yellow, fairly deep, sweet grains.

## Hybrid Sugar Corns

No one having a garden over 150 square feet should be without a few hills of these new Top Cross and Hybrid sugar corns. They are uniform in ripening and growth and give a high yield per acre. They are highly resistant to Stewart's wilt disease.

The two varieties we list have been thoroughly tried out in our section and have proven to succeed most excellently. These new Hybrid and Top Cross sugar corns are a valuable asset to the corn family.

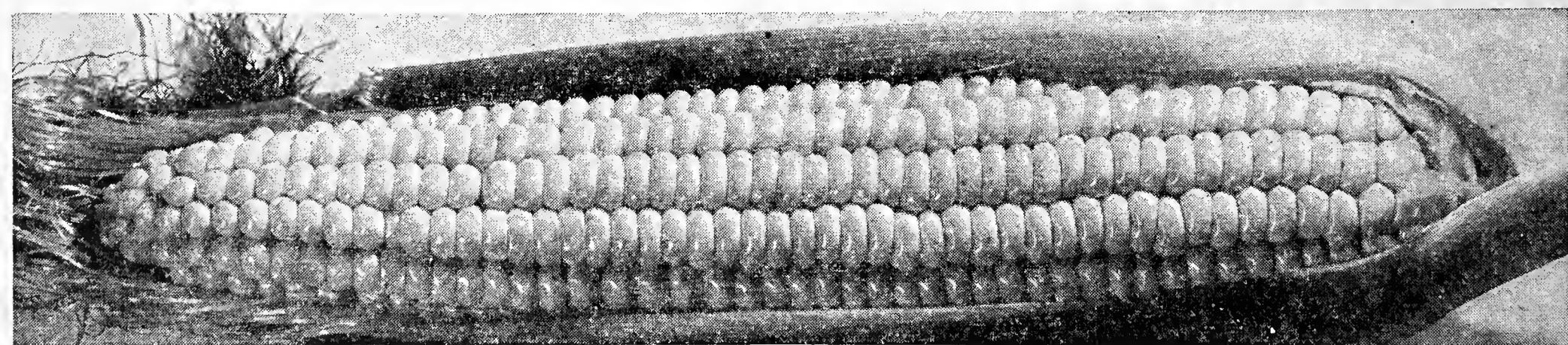
Top Cross Golden Bantam and Golden Cross Hybrid corns must be produced each year by crossing and will not give satisfactory results unless this is done, so do not try to save your own hybrid seed.



R. H. Co.'s Early Surprise

### Treat Garden and Sugar Corns

with Semesan Jr., it will insure better stands and crops. 2-oz. pkg., treats 1 bushel of seed, 15c; postpaid, 20c. 4-oz. pkg. treats 2 bushels of seed, 30c; postpaid, 35c.



Top Cross Golden Bantam

**TOP CROSS GOLDEN BANTAM.** 75 days. A cross between two inbred Bantams developed jointly by the U. S. Department of Agriculture and Purdue Experiment Station. It grows 6 to 7 feet high, sturdy and straight, producing two ears to the stalk. Ears very uniform, 8 inches long and have 10 to 14 rows of light yellow kernels with delicious sweet pulp. About 6 days later than Golden Bantam and highly resistant to bud worms. Postpaid, ¼ lb., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 70c; 5 lbs., \$1.45; 10 lbs., \$2.30. Not prepaid, ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25; 10 lbs., \$2.00.

**GOLDEN CROSS HYBRID.** The most outstanding sweet corn hybrid which has been introduced to the trade in many years, increasingly popular in practically every section of the country.

Originated by Dr. Glen M. Smith, of the United States Department of Agriculture, stationed at Purdue University, Lafayette, Indiana. A cross of Purdue Bantam Inbred No. 39 and Inbred No. 51, very resistant to Stewart's disease or wilt. Hardy, prolific, uniform in stalk growth, ear conformation, and maturity:

**Ear:** 8-10 in. long, with 10-14 rows of light golden color.  
**Stalk:** 5-6 ft. Dark foliage and produces two ears to each stalk.

**Season:** 85 days, 10 days later than Top Cross Golden Bantam. Uniform maturity, and ear conformation. Excellent flavor and quality. Very resistant to corn worms. Postpaid, ¼ lb., 15c; ½ lb., 25c; 1 lb., 45c; 2 lbs., 70c; 5 lbs., \$1.45; 10 lbs., \$2.30. Not prepaid, ½ lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25; 10 lbs., \$2.00.

## Pop Corn

Five to seven pounds will plant an acre when drilled. Make rows about 3½ feet apart. Plant in May so the crop will mature about September 15th. Pop corn requires good soil and about the same treatment and methods of cultivation as field corn.

**SOUTH AMERICAN DYNAMITE.** Vigorous, tall growing, produces 2 to 3 ears to a stalk, 6 to 7 inches long, with rich creamy yellow grains that pop large, crisp and tender. Ready in 90 days. Postpaid, ½ lb., 20c; 1 lb., 25c; 2 lbs., 35c; 5 lbs., 70c; 10 lbs., \$1.00. Not prepaid, 1 lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 10 lbs., 80c.

# EGGPLANT

**Culture.** Sow in hotbed in February or March. When 4 inches high, transplant in April to 3-foot rows in deep, rich loam. One ounce of seed will produce 1000 plants.

**Prices Any of the Following Varieties of Eggplant**  
 Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 20c; 1 oz., 35c; 2 ozs., 60c;  $\frac{1}{4}$  lb., 95c;  $\frac{1}{2}$  lb., \$1.55;  
 1 lb., \$2.85.  
 Not prepaid,  $\frac{1}{4}$  lb., 90c;  $\frac{1}{2}$  lb., \$1.50; 1 lb., \$2.75.

**BLACK BEAUTY.** 81 days. Plants low and bushy, spineless, with 4 to 5 fruits, which are broad, smooth, attractive, purplish black.

**FLORIDA HIGH BUSH.** 85 days. Fruits elongated, cylindrical, purple; plants upright and branching.

**NEW YORK PURPLE.** 83 days. Oval in shape; fruits black-purple and glossy, slightly larger than Black Beauty.

## Garlic

Plant in early spring or fall, six inches apart in rows wide enough to work. Postpaid,  $\frac{1}{2}$  lb., 25c; 1 lb., 35c. Not prepaid,  $\frac{1}{2}$  lb., 15c; 1 lb., 25c.

## Gourds

Plant in April or May, 6 to 8 feet apart.

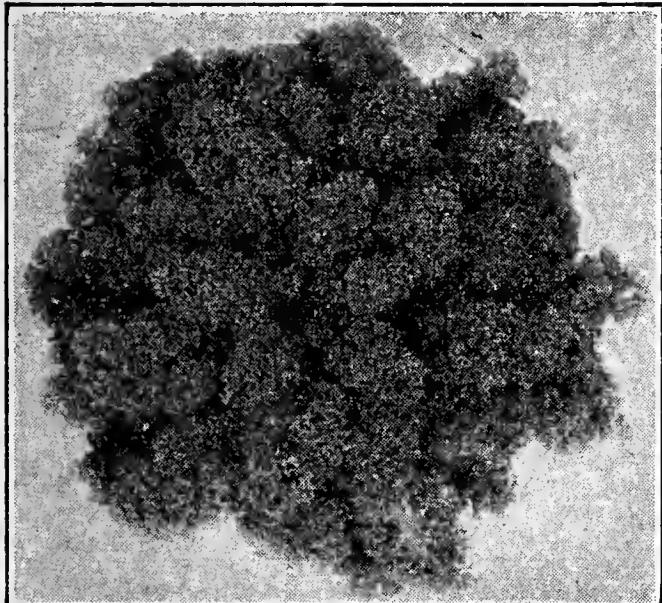
**DIPPER.**

**DISH RAG.**

**NEST EGG.**

**MIXED SMALL VARIETIES.**

Price, any of above four varieties: Pkt., 5c;  $\frac{1}{2}$  oz., 20c; oz., 30c, postpaid.



Siberian Dwarf Green Curled Kale

## Herbs

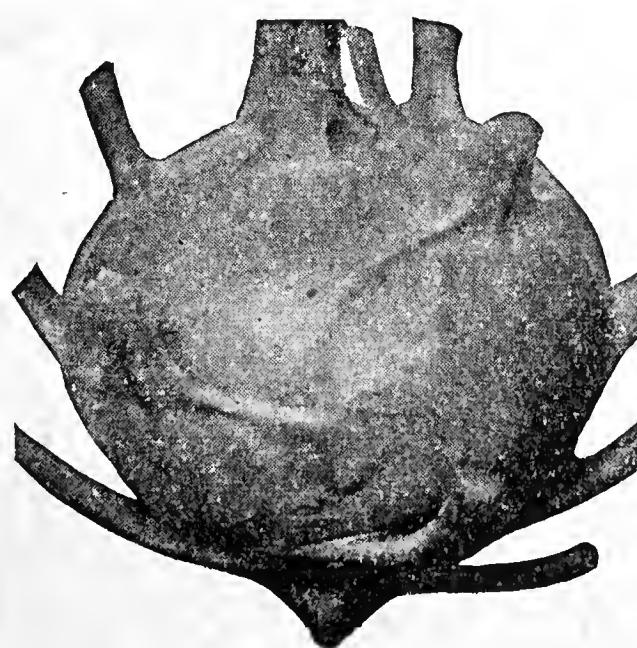
Postpaid Prices Pkt., Oz.

<b>SWEET BASIL.</b> For flavoring soups	.....	\$0.10	\$0.50
<b>LAVENDER.</b> Used for its odor	.....	.10	.60
<b>SWEET MARJORAM.</b> Used for seasoning	.....	.10	.50
<b>SUMMER SAVORY.</b> Used as a culinary herb	.....	.10	.35
<b>SAGE, Broad-Leaf.</b> A popular plant	.....	.10	.35
<b>THYME, English.</b> Much used for seasoning	.....	.10	.60

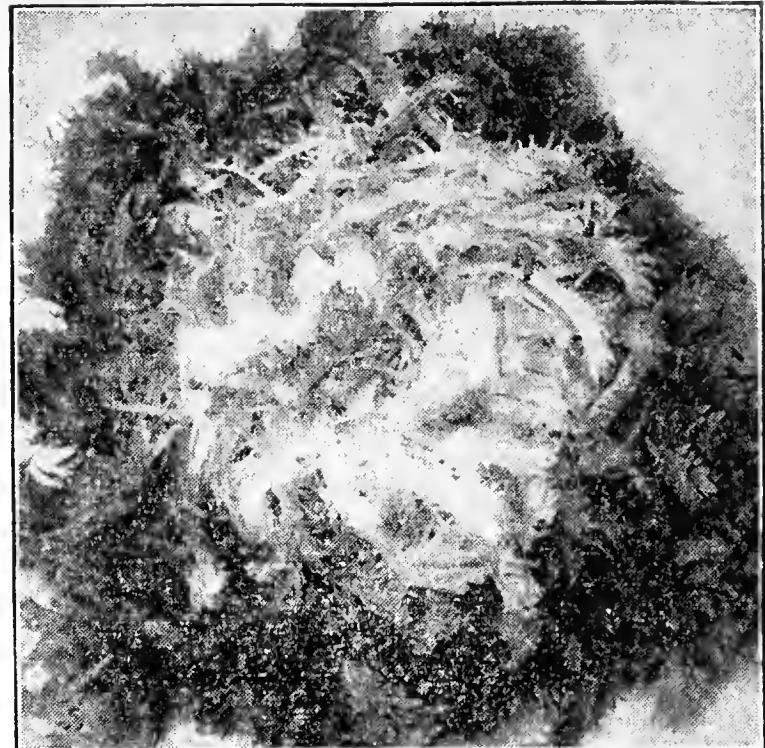
## Kohrabi

**Culture**—Plant in 18- to 24-inch rows as early as the ground can be worked in the spring, thinning out to stand 4 inches apart in the row. Bulbs should be used when they are 2 to  $2\frac{1}{2}$  inches in diameter and cooked same as turnips. Sometimes planted in hotbeds and transplanted for very early maturing Kohlrabi. One ounce plants 300 feet; 4 pounds an acre.

**WHITE VIENNA.** An extra early variety making bulbs 2 to  $2\frac{1}{2}$  inches in 55 to 60 days after seed is sown outdoors. Has very few short leaves. Bulbs are sweet and tender. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 20c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.50. Not prepaid,  $\frac{1}{4}$  lb., 45c;  $\frac{1}{2}$  lb., 75c; 1 lb., \$1.40.



White Vienna Kohlrabi



Green Curled Endive

## Endive

**Culture.** One ounce will sow 200 feet of drill, thin to 18 inches. Sow about the middle of April, and for succession in June and July. When nearly full grown, and before they are fit for the table, they should be blanched by tying the leaves loosely together.

**GREEN CURLED.** 90 days. Rich green curled leaves. Plants 15 inches in diameter. Blanches easily.

**BROAD-LEAVED BTAAVIAN (Es-carolle).** 90 days. Large, broad leaves, full, compact heads.

**Prices either of the two varieties of Endive.**

Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; 1 oz., 20c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.20.

Not prepaid,  $\frac{1}{4}$  lb., 45c;  $\frac{1}{2}$  lb., 75c; 1 lb., \$1.10.

## KALE

This vegetable produces excellent "greens" for spring and winter. The leaves are boiled the same as spinach. It is the hardiest of all winter greens, frost improving the quality rather than injuring it.

**Culture**—Sow from 2 to 3 pounds broadcast to the acre, 1 ounce to 200 feet of drill. Sow in March or September in drills or broadcast.

**Prices of the following 3 varieties of Kale.**

Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 50c; 5 lbs., \$1.95; 10 lbs., \$3.30.

Not prepaid,  $\frac{1}{4}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00.

**SIBERIAN DWARF GREEN CURLED.** 65 days. A hardy, vigorous, spreading variety of dwarf habit, 12 to 16 inches tall. Leaves large and heavy in texture, plain at center with edges curled. Color deep bluish green.

**DWARF GREEN CURLED SCOTCH.** 65 days. The plant reaches a height of 15 inches with a 30-inch spread. Compact leaves, deep yellowish green, large and finely curled, plume-like.

**TALL GREEN CURLED SCOTCH.** 60 days. A strain 3 feet tall and producing an abundance of light green, densely curled leaves. Very hardy and tender after exposure to frost.

## Horseradish

Large, strong cuttings. Postpaid, doz., 40c; 50 for \$1.40; 100 for \$2.45. Not prepaid, doz., 35c; 50 for \$1.25; 100 for \$2.25.

## SPECIAL OFFER

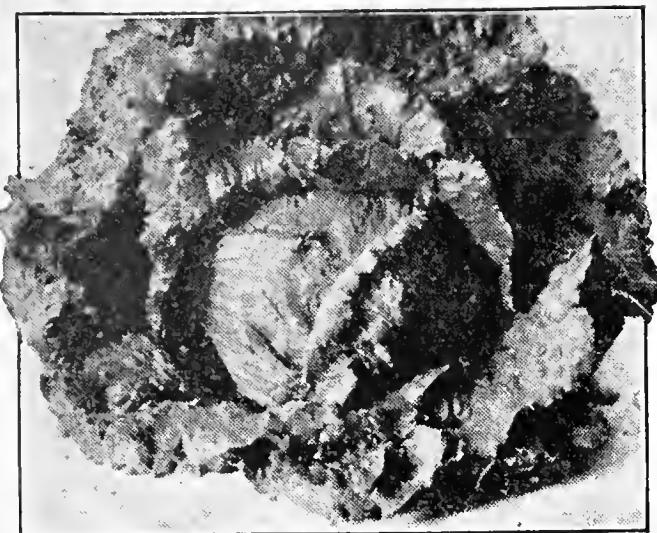
Postage Paid

For 25c select any 7—5c pkts. of Garden Seed.

For 50c select any 15—5c pkts. of Garden Seed.

For 30c select any 4—10c pkts. of Garden Seed.

For 50c select any 7—10c pkts. of Garden Seed.



New York Wonderful

**NEW YORK WONDERFUL.** 80 days. Also known as Los Angeles. This is the crisp heading variety grown in immense quantities on the Pacific Coast and shipped to eastern markets as Iceberg. The plants are large, 12 to 15 inches across with dark green leaves only slightly curled on the edges. Heads are solid, well blanched, sweet and tender.

**PRIZEHEAD.** Very popular, large, loose-heading sort. Leaves finely crumpled and fringed, outer ones shaded brown; very crisp, sweet and tender.

Lettuce plants priced on page 50.



Big Boston

# LETTUCE

**Culture.** One ounce will sow 200 feet of drill; 4 to 5 pounds will sow one acre in drills. Lettuce belongs in every garden, whether large or small. It is easy to grow, and grows to perfection in a rich, moist, cool soil. Sow the seed in hotbeds in February or March, transplant into a sheltering border with a southern exposure. For successive crops, sowings may be made in the open ground as early as the spring opens and continuing until July. From 60 to 80 days are required to bring the crop to maturity. Always thin out well, or the plants will not be strong. When wanted as a cut salad, sow seed thickly in rows or broadcast.

## All Prices on Lettuce Seed Uniform, viz.:

Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 55c; 1 lb., 85c.

Not prepaid,  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 50c; 1 lb., 75c.

**BIG BOSTON.** 75 days. Early and hardy. Big Boston grows to an enormous size, well grown heads measuring from 10 to 12 inches across. Grows well during hot weather, but during the cool weather it heads particularly well, forming a tightly folded heart which consists of beautifully blanched, tender and juicy leaves.

**BLACK-SEEDED SIMPSON.** 65 days. Very tender and of excellent flavor. Forms a large loose head of broad, crumpled, light green leaves.

**CHICKEN LETTUCE.** 72 days. Your poultry needs "green" food and this variety of Lettuce is just the thing you want to grow for this purpose. It is a genuine Lettuce which will yield as much or more chicken or rabbit feed than any plant you may have used for "greens." When once cut it starts to grow again and makes a successive crop.

**COS or ROMAINE.** 77 days. Loaf-shaped, upright green leaves; excellent, crisp and tender.

**EARLY CURLLED SIMPSON.** 65 days. Early, hardy and dependable. This is one of the best of the loose-leaf sorts. Crisp, tender, of excellent quality.

**IMPROVED HANSON.** 80 days. Hardy and sure heading, compact and tender, leaves broad, curly with fringed edges.

**MIGNONETTE.** 67 days. Very early, small, compact solid heads with well blanched, white heart, good quality.

**ICEBERG.** 87 days. A crisp heading, late variety for home garden or market gardeners serving local markets. True Iceberg is large with wavy, fringed, light green leaves tinged with brown at the edges. Heads compact, crumpled, white inside, crisp and sweet.

## SPECIAL OFFER

### All Postpaid

Select any 7-5c pkts. of seed for 25c.

Select any 15-5c pkts. of seed for 50c.

Select any 4-10c pkts. of seed for 30c.

Select any 7-10c pkts. of seed for 50c.



Southern Giant Curled



Tendergreen or Mustard Spinach

**NEW YORK WONDERFUL.** 80 days. Also known as Los Angeles. This is the crisp heading variety grown in immense quantities on the Pacific Coast and shipped to eastern markets as Iceberg. The plants are large, 12 to 15 inches across with dark green leaves only slightly curled on the edges. Heads are solid, well blanched, sweet and tender.

**PRIZEHEAD.** Very popular, large, loose-heading sort. Leaves finely crumpled and fringed, outer ones shaded brown; very crisp, sweet and tender.

Lettuce plants priced on page 50.

## Leek

**Culture.** Use rich soil and sow early in the spring one-half inch deep in rows 18 inches apart and thin to 2 to 3 inches in the row. Cultivate and draw the earth to them as they grow.

**LONDON FLAG.** 85 days. A well known variety of quick, strong growth. Stems 10 inches long,  $1\frac{1}{2}$  inches thick; leaves large, broad and dark green. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 20c; 2 ozs., 30c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.35. Not prepaid,  $\frac{1}{4}$  lb., 45c;  $\frac{1}{2}$  lb., 75c; 1 lb., \$1.25.

## Miscellaneous Seeds for Your Garden

All prices are postage paid.

	Pkt.	$\frac{1}{2}$ oz.	1 oz.
Asparagus, Mary Washington	\$0.05	\$0.10	\$0.15
Broccoli, Green Sprouting	.05	.15	.25
Brussels Sprouts, L. I. Improved	.05	.15	.25
Celery, Golden Self Blanching, White Plume	.05	.15	.25
Celery, Giant Pascal and Celeriac	.05	.15	.25
Chicory, Witloof	.05	.15	.25
Corn Salad	.05	.10	.15
Dandelion, Thick Leaf	.10	.20	.35
Dill, Mammoth	.05	.10	.15
Rhubarb, Victoria	.05	.15	.25
Tobacco, Havana and White Burley	.10	.25	.45

## MUSTARD

**Culture.** The leaves are used as a salad or may be boiled like spinach. Sow seed in any good garden soil early in the spring, in rows  $1\frac{1}{2}$  to 2 feet apart and when well up thin out the plants so as to stand 8 to 10 inches apart. By making several sowings a week or so apart, the fresh tender leaves may be had throughout the season. Sow also in August and September for fall crops, two to three pounds will plant an acre.

**CHINESE MAMMOTH.** Ready for use in 40 days. Leaves plain, smooth and unfrilled, dark green in color.

**FLORIDA BROAD LEAF.** 40 days. Light green, smooth, thick leaves; long standing.

**ELEPHANT EAR.** 40 days. Smooth, very large, upright plant, tender and succulent.

**SOUTHERN GIANT CURLLED.** 30 days. A curly-leaf variety; produces large leaves; makes very fine greens; flavor is all that can be desired. Sow in February for early spring use.

**SOUTHERN GIANT CURLLED LONG STANDING.** 30 days. 1933 All-America selection. A fine strain, stands a long time before bolting to seed. Leaves beautifully curled, frilled and crumpled, large, light green.

## Tendergreen or Mustard Spinach

A new vegetable combining the delicious flavors and healthful qualities of spinach, mustard and turnip greens. It contains an abundance of protein, mineral matter, lime, and iron. The tap-root is small and not edible. The succulent leaves are large and oblong-shaped, a rather dark green color with a small center rib, and are prepared for table like other greens. Flourishes in hot weather and is resistant to drought and extreme cold. Plant any time during the year. Ready for table in 25 days.

### Mustard Prices, Any Variety

Postpaid, oz., 5c; 2 ozs., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.45; 10 lbs., \$2.25.

Not prepaid,  $\frac{1}{4}$  lb., 20c; 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.00; 25 lbs., \$4.50.

# Muskmelon or Cantaloupe

**Culture.** One ounce will plant 50 hills; 2 or 3 pounds in hills per acre. Melons thrive best in a rich, light soil. Plant early in May, when the ground has become warm and dry, in hills six feet apart each way for Muskmelons, eight feet for Watermelons. Previous to sowing the seed, mix a few shovelfuls of well-rotted manure in each hill, and plant in each 12 to 15 seeds; after all danger of the bugs is over, thin out to three plants per hill. When about one foot long, pinch off the tips to make them branch as it strengthens the growth of the vines and makes the fruit mature earlier. Give plenty of water and feed liquid manure occasionally. Early plantings can be made with the use of Hotkaps. See page 54 for prices and information about Hotkaps.

## Prices on all Cantaloupe Seed

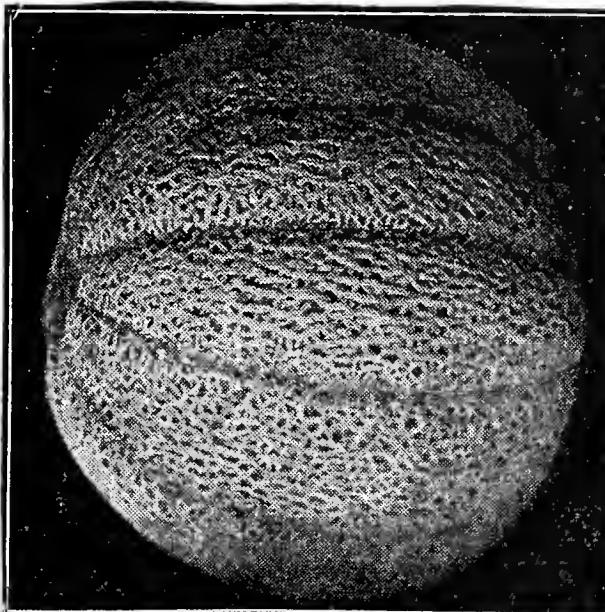
(Excepting California Beauty) Uniform, Viz.:

Postpaid, pkt., 5c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 45c; 1 lb., 75c; 5 lbs., \$2.70.

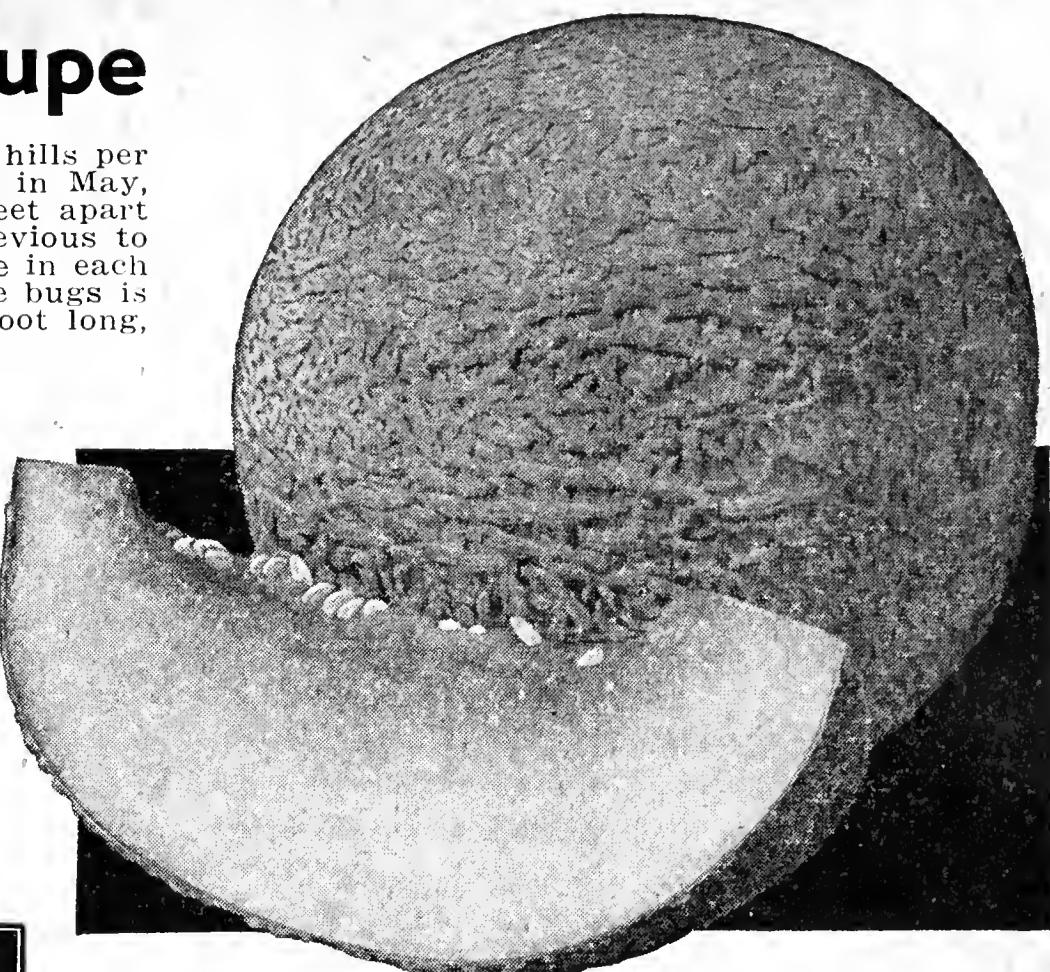
Not prepaid,  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; 1 lb., 65c; 5 lbs., \$2.50.

### Treat Cantaloupe Seed with SEMESAN

You will get better germination and healthier plants. It's simple, effective and economical.  $\frac{1}{3}$ -oz. pkt. (treats 5 lbs. seed), 10c; by mail, 15c. 2-oz. can (treats 30 lbs. seed), 35c; by mail, 40c.



Hearts of Gold



California Beauty

**BANANA.** 94 days. A novel variety having both the shape and fragrance of the banana with really delicious eating qualities. Fruits long, tapering, 14 inches long, 4 inches in diameter with smooth lemon colored skin and salmon flesh. Very vigorous and hardy.

**HALE'S BEST.** Original strain. 78 days. It is a remarkably early Melon of very fine flavor. The salmon flesh is exceptionally thick with very small seed cavity. The fruits are oval, about 8 by 4½ inches, with a heavy netting and ribs hardly apparent.

**HALE'S BEST No. 45.** 82 days. Produces extra large melons for home market or roadside sale, a showy, beautiful variety of the finest quality.

**HEARTS OF GOLD.** 95 days. A new orange-fleshed variety. Fruit of medium and very uniform size. Netting exceptionally fine and dense, extending practically over the entire surface. Flesh thick, firm, highly colored, of fine texture and delicious flavor.

**HONEY DEW.** 105 days. A splendid variety; rind dull white when ripe. The flesh is a rich green, very sweet and of delicious flavor.

**CALIFORNIA BEAUTY.** 84 days. Its distinctive characteristics are its appealing orange flesh, which is solid, fine grained, juicy, deliciously sweet and of a spicy flavor. Melons medium in size, 6 to 7 inches in diameter, weigh 2½ to 3 pounds, nearly round, and covered with a hard grey netting. It is very prolific and a money maker on our Memphis market. No grower can sell any other variety as long as California Beauty is available. Seed supply limited. Postpaid, pkt., 5c; oz., 20c; 2 ozs., 30c;  $\frac{1}{4}$  lb., 55c;  $\frac{1}{2}$  lb., \$1.00; 1 lb., \$1.50; 5 lbs., \$6.20. Not prepaid,  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 90c; 1 lb., \$1.40; 5 lbs., \$6.00.

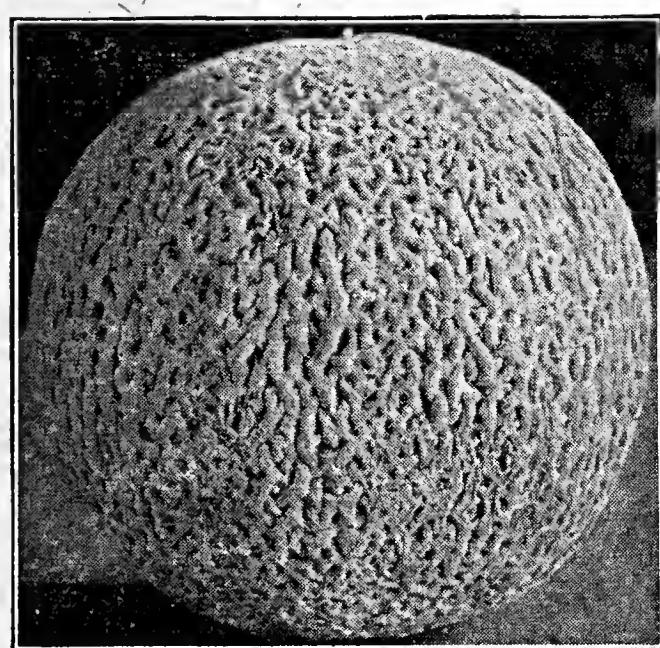
**MAMMOTH ROCKY FORD.** 90 days. The Melons are larger in size than the regular Rocky Ford, flesh green, thick, sweet and of high flavor. Melons are 5 to 6 inches in diameter, uniform in size and covered with heavy netting. Splendid for market or home gardens.

**PINK MEAT ROCKY FORD.** 93 days. An excellent shipping variety of Rocky Ford strain. Fruits nearly round, weigh 2½ pounds; show no ribbing, and densely covered with heavy grey netting. Flesh thick, deep salmon at center with green tone near the rind; sweet and spicy.

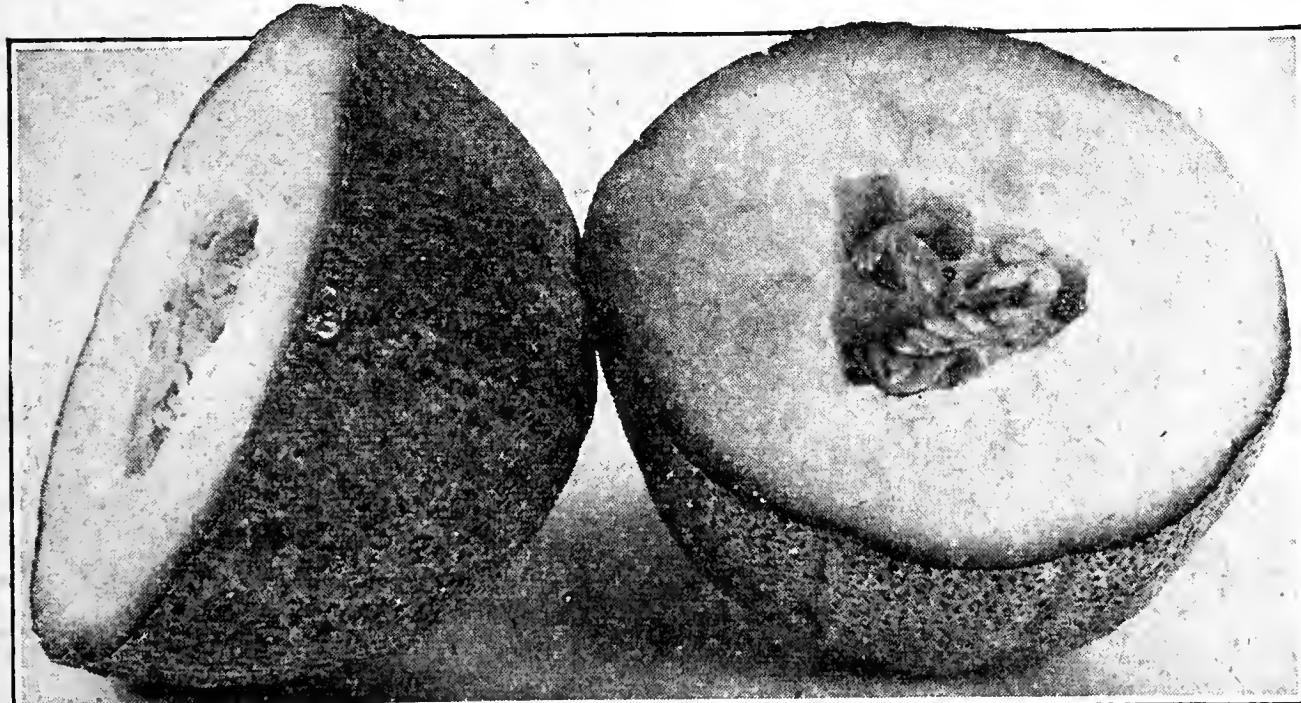
**ROCKY FORD.** 88 days. We have an especially fine, improved strain of this popular Melon as now grown at Rocky Ford. The fruit is small, almost round, smooth, showing no ribs, and densely covered with a heavy, hard gray netting; flesh thick and deep green, showing a faint lining of pink or gold at the center; of the highest quality.

**SUGAR or HONEY ROCK.** 100 days. Absolutely distinct and very superior Melon, the result of years of most careful and painstaking selection and breeding. Of that desirable size in demand in all markets, round, inclined to oval in shape, heavy in proportion to size because the flesh is deep. Distinctly ribbed and well netted—color of skin gray-green. The firm flesh is an attractive green of exquisite texture, sugary, juicy, tender, and free from stringiness.

**SUPERFECTO.** 85 days. Very fine for market. Bears and ripens its fruit more evenly and over a longer period than others. Netting fairly coarse and heavy; seed cavity very small. The fine grained flesh is a rich colored, solid salmon-pink, of excellent flavor clear to the rind. In size runs to the jumbo flat pack. Vines vigorous and resist disease to a marked degree.



Rocky Ford



Hale's Best

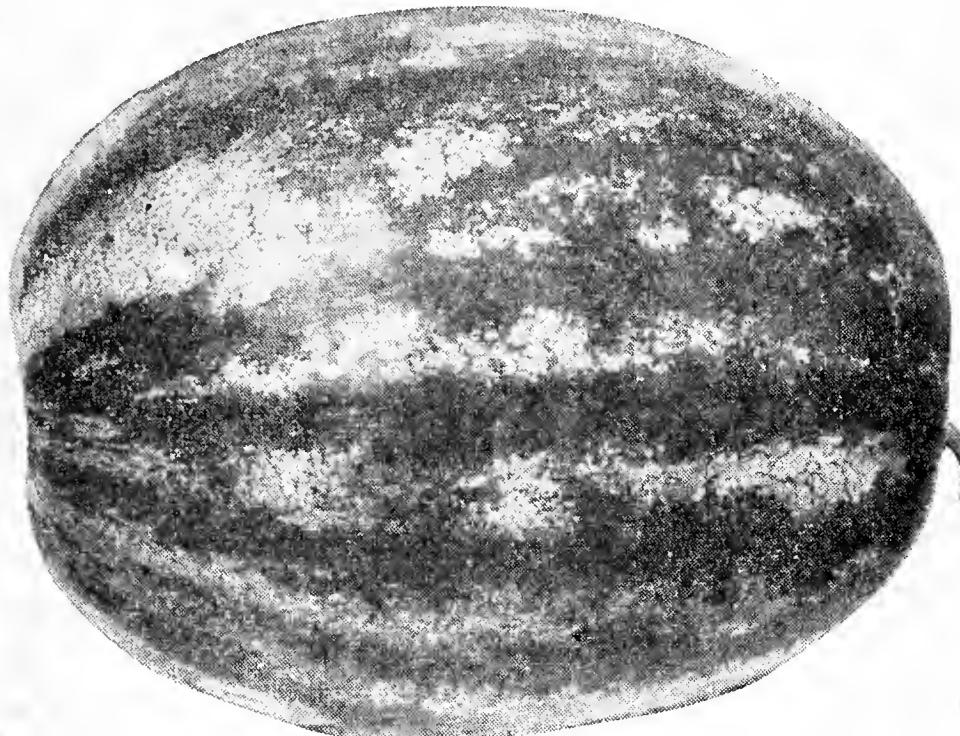
## ONE POUND MUSK-MELON COLLECTION

$\frac{1}{4}$  lb. California Beauty Muskmelon  
 $\frac{1}{4}$  lb. Hale's Best No. 45 Muskmelon  
 $\frac{1}{4}$  lb. Sugar Rock Muskmelon  
 $\frac{1}{4}$  lb. Hearts of Gold Muskmelon

Regular value \$1.20.  
Sent postpaid for only 90c.

# R.-H. Co.'s WATERMELONS

**Culture**—Prepare hills 8 or 10 feet apart each way by working in thoroughly rotted manure or poultry droppings—rich ground gives the plants a good start before insects attack them. When the ground is warm plant 6 or 8 seeds to the hill, covering an inch deep and, when well up, thin out, leaving three strong plants to each hill. Do not grow near pumpkins and gourds. They are often planted between the rows in a cornfield. In growing they require plenty of water. Avoid lifting the vines and use only hand tools in cultivating. One ounce will plant 30 hills; 3 lbs. will plant an acre. Spray young plants with Pyrox for insects and diseases. For early plantings use Hotkaps. This method means two weeks ahead on the market.



Dixie Queen

**DIXIE QUEEN.** 90 days. Fruits oblong or nearly round, fair size, averaging 25 lbs. or more, light green, striped and blotched with dark green; rind thin but tough. Flesh rich scarlet, crisp and extremely sweet with very few seeds. Seeds white and small. Dixie Queen has now become one of the most popular and desirable varieties either for home use, market or trucking. It stands the drought better than most other sorts. In normal season grows large enough, a nice average size that the trade wants. Dixie Queen Melon is sometimes called the white-seeded Cuban Queen. Do not confuse it with old black-seeded Cuban Queen, which is an entirely different Melon. Our stock of Dixie Queen is genuine and from the very best growers. Postpaid pkt., 5c; oz., 10c; 2 ozs., 20c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 45c; 1 lbs., 85c; 2 lbs., \$1.50; 5 lbs., \$2.95; 10 lbs., \$5.25. Not prepaid,  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; 1 lb., 75c; 2 lbs., \$1.40; 5 lbs., \$2.75; 10 lbs., \$5.00.

**EXCEL.** 80 days. The Excel is a large, long green Melon, often weighing 50 to 60 lbs.; a fine shipping variety. Flesh deep red and ripens well out to the rind. Color of rind deep green and occasionally deep green stripes.

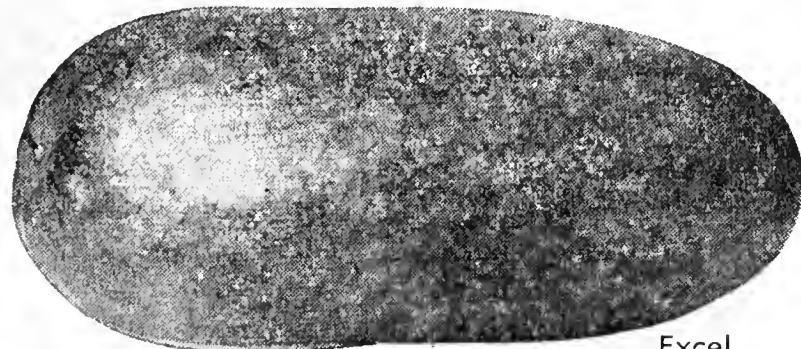
**BLACK DIAMOND.** 85 days. Very large, round in shape, deep red meat with black seeds.



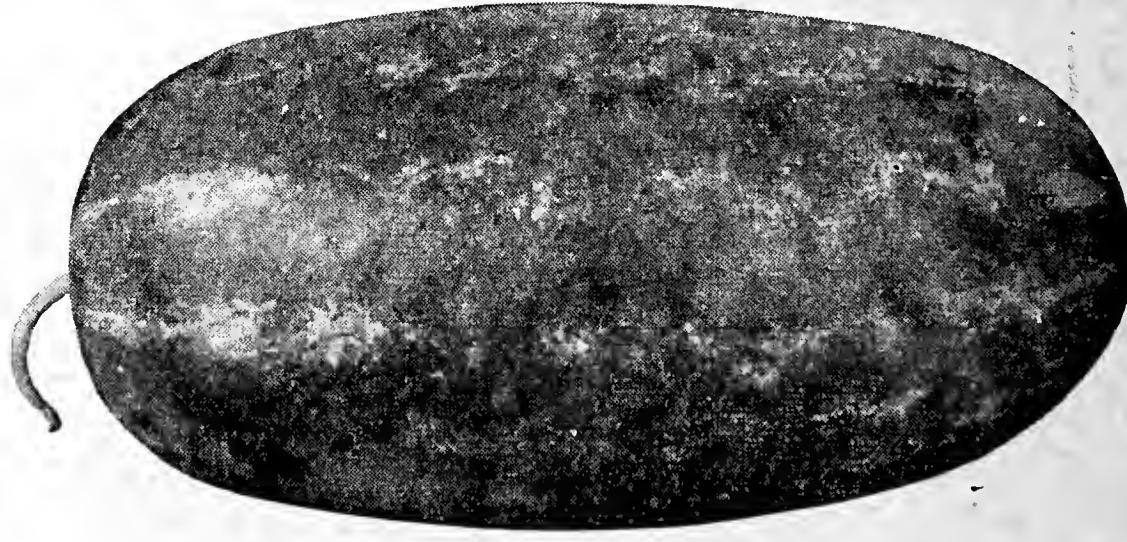
R.-H. Co's Winona

## VIGORO

Especially desirable for use as a fertilizer under Watermelons. Postpaid, 5 lbs., 65c; 10 lbs., \$1.10. Not prepaid, 5 lbs., 45c; 10 lbs., 85c; 25 lbs., \$1.50; 100 lbs., \$4.00.



Excel



Irish Gray

## PRICES ON ALL WATER MELONS

Listed on this page, except where noted otherwise, uniform as follows:

Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 35c; 1 lb., 55c; 2 lbs., 90c; 5 lbs., \$1.95; 10 lbs., \$3.50.

Not prepaid,  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$3.25.

**R.-H. CO.'S WINONA.** 90 days. This celebrated southern grown Watermelon is in a class by itself. The fruits are very long with dark green rind, flesh crimson-red, crisp and sweet. The average weight of Winona Melon is about thirty-five pounds. Our seed is genuine, raised for us in the South and saved from uniform specimens. Seed shiny black, a very distinct and splendid variety either for home or market use. Vine vigorous and healthy. Winona is especially adapted to our climate and soil. We strongly recommend it to our customers. Postpaid, pkt., 5c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 40c;  $\frac{1}{2}$  lb., 55c; 1 lb., 90c; 2 lbs., \$1.60; 5 lbs., \$3.70; 10 lbs., \$6.25. Not prepaid,  $\frac{1}{4}$  lb., 35c;  $\frac{1}{2}$  lb., 50c; 1 lb., 80c; 2 lbs., \$1.50; 5 lbs., \$3.50; 10 lbs., \$6.00.

**R.-H. CO.'S HOME GROWN WINONA MELON.** This is grown for us near Water Valley, Miss., where they really raise good ones. Seed from selected home grown melons. Postpaid, pkt., 10c; oz., 20c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 55c;  $\frac{1}{2}$  lb., 95c; 1 lb., \$1.60; 5 lbs., \$7.20; 10 lbs., \$12.75. Not prepaid,  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 90c; 1 lb., \$1.50; 5 lbs., \$7.00; 10 lbs., \$12.50.

**GEORGIA RATTLESNAKE.** 90 days. An excellent shipping Melon popular in the South for its size, productiveness and eating qualities. Fruits very long, fairly large, 25 to 30 lbs., light green, irregularly mottled with dark green stripes. Its striking appearance has helped its popularity. A ready seller, for, once seen, it is always remembered. Rind very tough. Flesh bright scarlet, crisp and sweet. Seeds dull white with black tips.

**GOLDEN HONEY.** 90 days. Oblong in shape; weight about 20 pounds. Rind is dark green with darker green stripes. Flesh is bright golden color and of excellent flavor.

**HALBERT HONEY.** 82 days. The Melons average 18 to 20 inches in length, 6 to 8 inches in diameter. Color of rind a clear glossy deep green. The flesh is a beautiful crimson, extending to within less than half an inch of the rind, which, like the flesh, is so tender it will not stand shipping any distance.

**IRISH GRAY.** 90 days. One of the finest Melons to grow anywhere. It is quite productive, very sweet and tender, a trifle earlier than Tom Watson and compares equally with that variety in shipping quality. Fruits large, 25 to 30 lbs., oblong, smooth, a distinct mottled greenish gray; rind tough and hard. Flesh bright red, firm and sweet. Seeds white.

## SPECIAL OFFER POSTPAID

Select any 7 — 5c pkts. for 25c.  
Select any 4 — 10c pkts. for 30c.

**KLECKLEY'S SWEETS.** 85 days. This improved strain of Kleckley's Sweets produces uniformly large, dark green melons of the finest quality and of handsome appearance. It is a splendid table Melon with a heavy, tough rind which makes it a good shipper to distant markets. The seeds are all creamy white. The flesh is bright scarlet, very firm, and of superb flavor. The outside skin is of a rich dark green color, shaded with faint stripes of a lighter shade. The sweetest and juiciest of all the Melons, and so solid that a hollow or pithy center is seldom found. Altogether, it is a Melon without an equal. About 20 inches long.

**NEW WONDER.** It possesses a flavor that is not approached by any other variety. Its rind is thin but tough, and it will stand safe shipment for reasonable distances. Its flesh is a rich red and full of flavor right up to the rind, without any hollow. The seeds are large and white, and relatively few to the Melon. It is large and long. The color is dark solid green, most attractive. Matures in about 85 days.

**SCHLOCHLER.** 90 days. One of the biggest Melons. They will average 40 lbs. each. The fruit is very dark green with an indistinct stripe, flesh bright red, sweet and crisp. Shape long and uniformly thick and very attractive. Vine vigorous and exceedingly prolific. Schlochler is a good shipper, grows extra large and the quality is fine. Commercial growers will find it a very profitable and desirable Melon.

**SPECIAL KLECKLEY'S SWEETS.** 85 days. Improved and selected stock, the seed being saved from the best in the field. Our grower has given this seed extra care. Postpaid, pkt., 10c; oz., 15c; 2 ozs., 25c; 1/4 lb., 35c; 1/2 lb., 55c; 1 lb., 90c; 2 lbs., \$1.50; 5 lbs., \$3.45; 10 lbs., \$6.25. Not prepaid, 1/4 lb., 30c; 1/2 lb., 50c; 1 lb., 80c; 2 lbs., \$1.40; 5 lbs., \$3.25; 10 lbs., \$6.00.

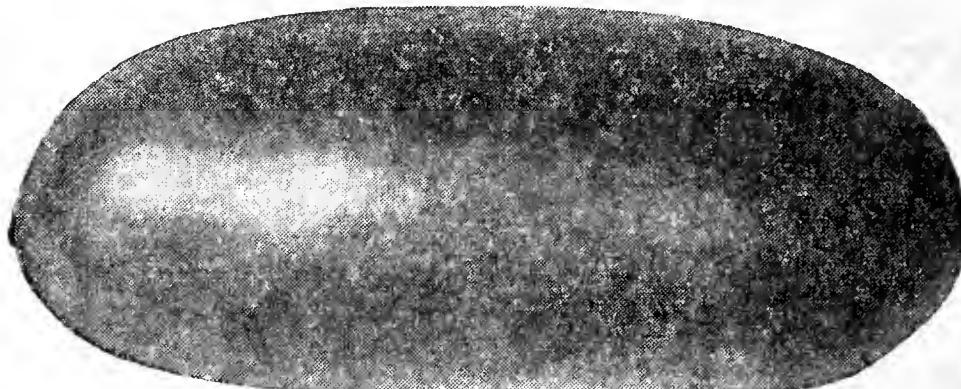
**SPECIAL STONE MOUNTAIN.** 90 days. Extra select stock, the seed being saved from the most perfect Melons. All hand cut and special care is given to all details in making it superior. Postpaid, pkt., 10c; oz., 15c; 2 ozs., 25c; 1/4 lb., 35c; 1/2 lb., 55c; 1 lb., 90c; 2 lbs., \$1.50; 5 lbs., \$3.45; 10 lbs., \$6.25. Not prepaid, 1/4 lb., 30c; 1/2 lb., 50c; 1 lb., 80c; 2 lbs., \$1.40; 5 lbs., \$3.25; 10 lbs., \$6.00.

**STONE MOUNTAIN.** Ripens in 85 to 90 days. The fruit is almost round or square-shaped with rich, dark green, medium thick rind, and dazzling scarlet flesh of luscious sweetness. It has few seeds, is firm and solid, almost all heart, and truly an unsurpassed table delicacy. The rind is sufficiently tough to stand considerable handling, making it an excellent shipper. It is very prolific, withstands drought, and will produce a fine crop of good Melons when other varieties fail. It is the best round type Watermelon for home garden or market.

**TOM WATSON.** 90 days. One of the most popular shipping Melons grown. The Melons are large, long and dark green. The flesh is rich, red, solid, and luscious and ripens close up to the rind. When grown under proper conditions, Tom Watson is good for all purposes. Our stock is the genuine cut-red Watson.

## TOM WATSON

**SPECIAL TOM WATSON.** This seed is saved from the largest and most perfect Melons by our grower in Florida. The flesh is rich red, solid, sweet and luscious, and ripens up close to the rind. Postpaid, pkt., 10c; oz., 15c; 2 ozs., 25c; 1/4 lb., 35c; 1/2 lb., 55c; 1 lb., 90c; 2 lbs., \$1.50; 5 lbs., \$3.45; 10 lbs., \$6.25. Not prepaid, 1/4 lb., 30c; 1/2 lb., 50c; 1 lb., 80c; 2 lbs., \$1.40; 5 lbs., \$3.25; 10 lbs., \$6.00.



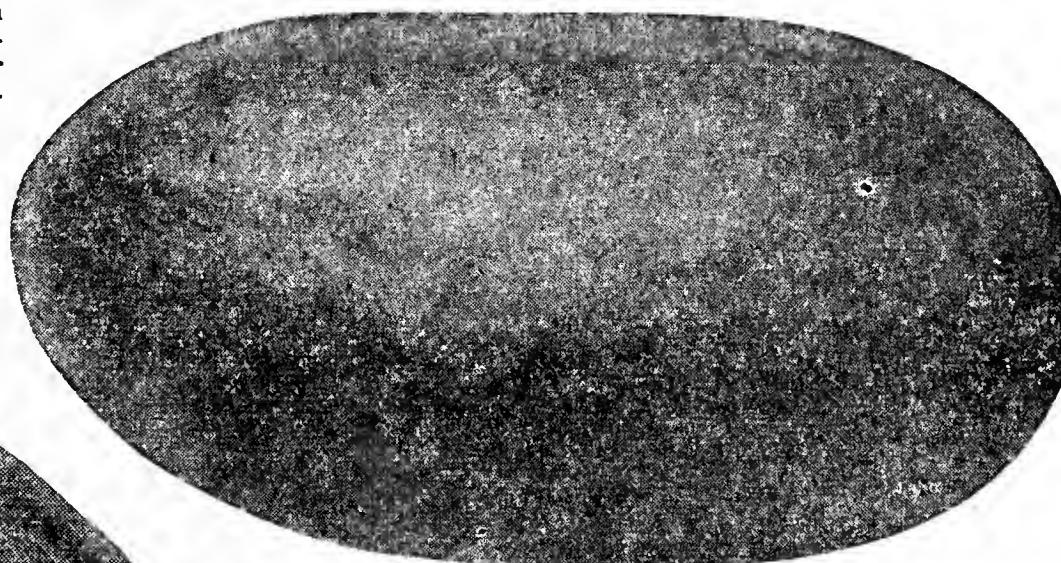
Schlochler



Stone Mountain

### Prices on All Watermelons on This Page, Excepting Where Noted Otherwise:

Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c; 1/4 lb., 25c; 1/2 lb., 35c; 1 lb., 55c; 2 lbs., 90c; 5 lbs., \$1.95; 10 lbs., \$3.50. Not prepaid, 1/4 lb., 20c; 1/2 lb., 30c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75; 10 lbs., \$3.25.



New Wonder

### R. H. Co's Watermelon Collection

1/4 lb. Dixie Queen  
1/4 lb. Stone Mountain  
1/4 lb. Halbert Honey  
1/4 lb. Winona

Regular value, \$1.00; sent postpaid for only 75c.



Hotkaps are "individual hothouses" for every plant—protecting them against frost, rain, wind, insects, and crusting. They "force" plant growth, making healthier, hardier plants and producing bigger crops from two to three weeks earlier—in time for the early market prices. They may be used with practically any crop that needs protection, but are especially suited for use with vine crops such as Cucumbers, Cantaloupes, Watermelons, Squash, Pumpkins, etc.

Home garden package, 25 Hotkaps and cardboard setter, 50c; by mail, 60c. Special, 100 Hotkaps with garden setter and tamper, \$2.65; by mail, \$2.85.

Larger quantities quoted on page 54.

Kleckley's Sweet

# ONION SEED

**Culture.** Onions require a fertile soil, well pulverized and drained. Sow in March and April in rows 12 to 15 inches apart, covering the seed one-fourth inch deep. When the plants are 3 or 4 inches high, thin them out where too thick in the row. Cultivate thoroughly. 1 ounce will sow 200 feet of row; 4 to 5 pounds per acre. Onions mature when grown from seed in 120 to 130 days.

**AUSTRALIAN BROWN.** Skin thick, chestnut-brown, nearly globe-shaped; good keeper.

**PRIZETAKER.** Bulbs large, globular, skin thin, glossy yellow, crisp and sweet.

**RED WETHERSFIELD.** Bulbs flat and deep, skin purplish red; popular.

**SWEET SPANISH RIVERSIDE.** Very mild in flavor; deep amber-yellow skin; globe-shaped.

**WHITE BUNCHING.** Grown exclusively for bunching, very mild, crisp and tender flesh.

**WHITE SWEET SPANISH.** Globe-shaped, pure white and of mild flavor.

**WHITE SILVERSKIN.** The standard white variety; medium size, firm and hard; a good keeper.

**YELLOW GLOBE DANVERS.** Large, globe-shaped, pure yellow, solid and firm. A good keeper.

## Okra

**Culture.** One ounce will plant 100 hills. Sow about the first of May, in drills 3 feet apart, and

thin out the plants to 1 foot apart. Soak seed in water 12 hours—they germinate easier.

The pods should be picked daily to prolong the bearing season. Okra can be picked in about 105 days after planting.

**DWARF GREEN PROLIFIC.** A dwarf, compact plant. Pods long, deep green, slightly corrugated; fine quality. Very early and productive.

**TALL LONG GREEN.** Plants grow 3 feet tall; pods deep green, very long, slender and slightly corrugated. A desirable variety, being very early and productive.

**WHITE VELVET.** Grows 3½ feet tall; very productive of round, smooth, white pods of fine quality.

Prices of Okra Seed, all varieties: Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 20c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 65c; 5 lbs., \$1.45; 10 lbs., \$2.25. Not prepaid, ¼ lb., 15c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25; 10 lbs., \$2.00.

### Prices of Onion Seed on This Page

Postpaid, pkt., 5c; oz., 20c; 2 ozs., 30c; ¼ lb., 45c; ½ lb., 80c; 1 lb., \$1.35; 2 lbs., \$2.50; 5 lbs., \$5.95. Not prepaid, ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25; 2 lbs., \$2.40; 5 lbs., \$5.75.

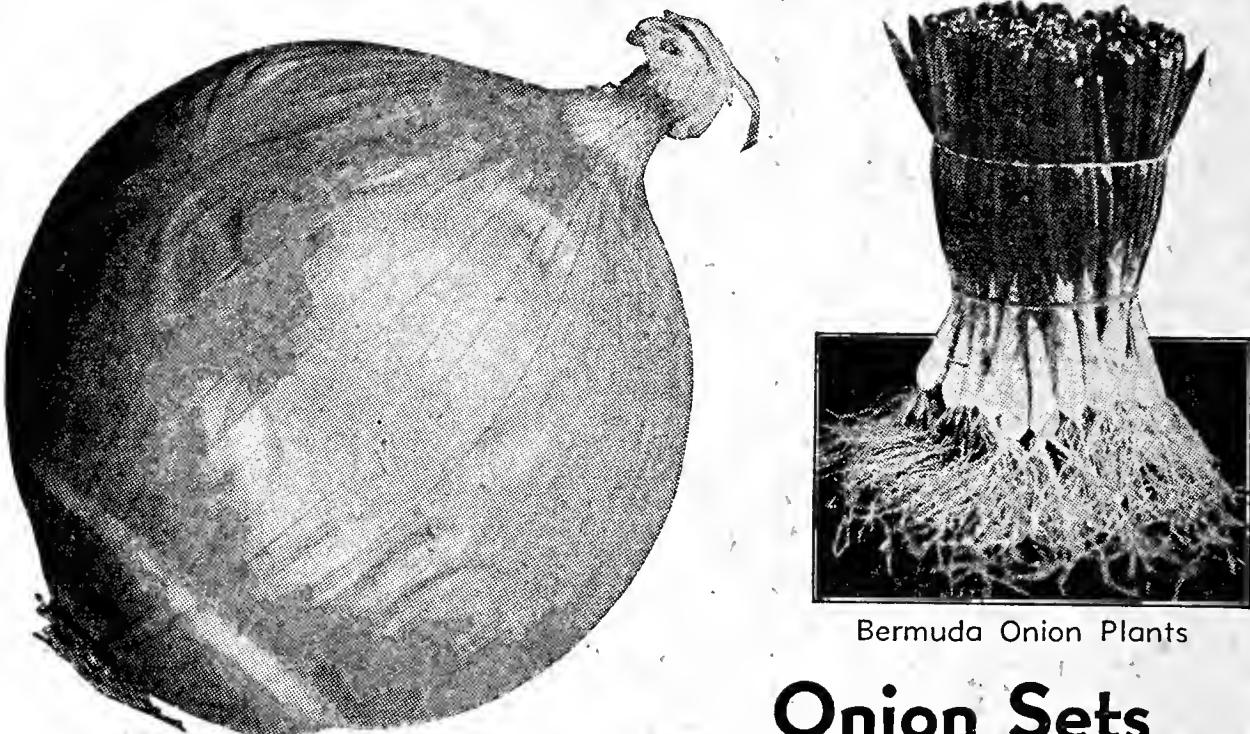
## Bermuda Onion Plants

**Culture.** Set in 24-inch rows, 4 to 6 inches apart, in February and March. We will send you fresh clean plants.

**CRYSTAL WHITE WAX.**

**YELLOW STRAW COLORED.**

Price, either variety: Postpaid, 200, 30c; 500, 60c; 1000, \$1.00. Not prepaid, 200, 20c; 500, 40c; 1000, 75c. Larger quantities quoted on our Green Ink List.



Bermuda Onion Plants

## Onion Sets

**Culture.** Set 6 inches apart, in March and April. Have rows 24 to 36 inches apart.

Give them clean cultivation and plenty of fertilizer. Our sets are quality stock.

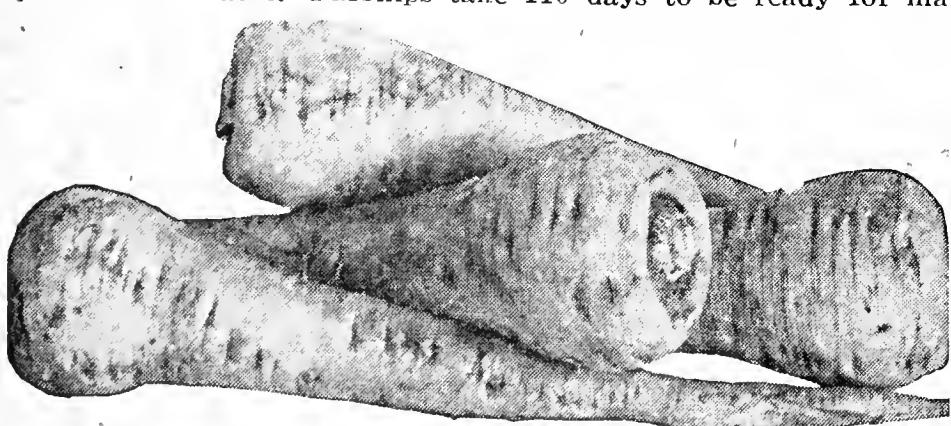
Postpaid	Not Prepaid		
Qt.	Gal.	Qt.	Gal.

RED WETHERSFIELD	.....	\$0.20	\$0.50	\$0.10	\$0.35
YELLOW DANVERS	.....	.20	.50	.10	.35
WHITE SILVERSKIN	.....	.25	.65	.15	.50

Peck and bushel prices quoted on our special Green Ink List.

## Parsnip

**Culture.** Sow seed in early spring, ¾ inch deep, in rows 12 to 18 inches apart and when 3 inches high thin to 6 inches apart in the row. One ounce of seed for 100 feet of row; 5 pounds of seed required for an acre. Parsnips take 110 days to be ready for market.

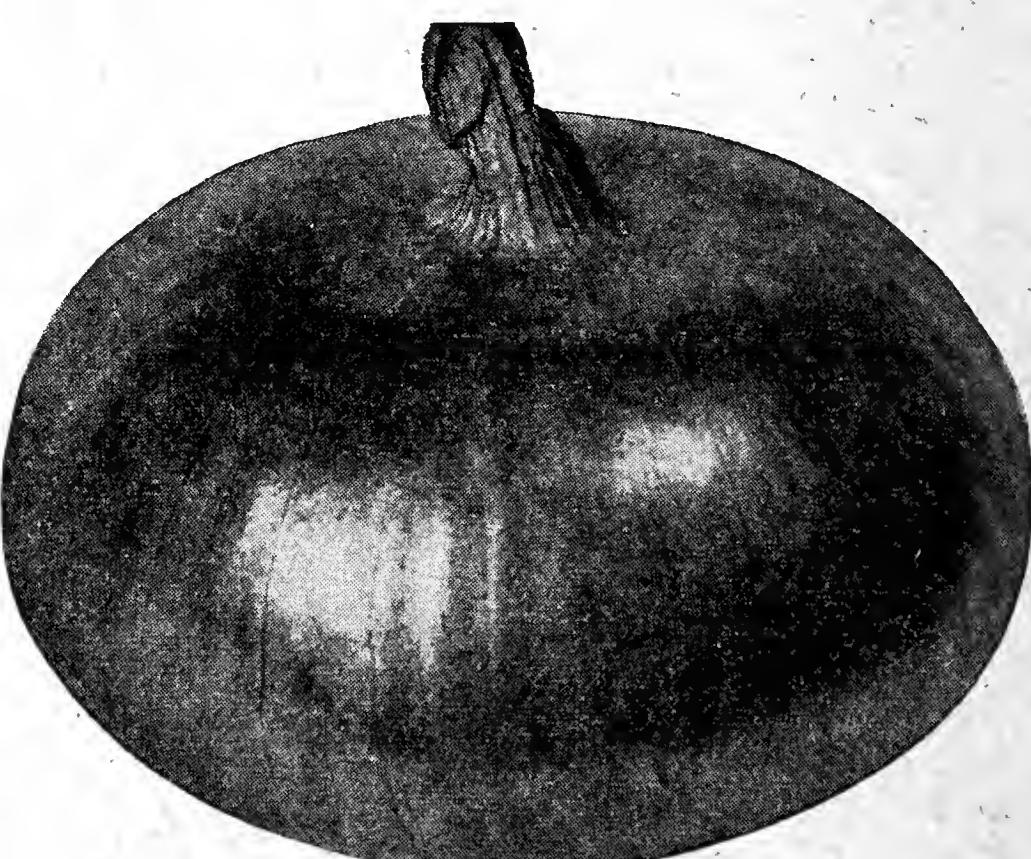


**SUGAR or HOLLOW CROWN.** Smooth roots, 12 inches long, 3 inches thick at shoulder: tapered. Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 55c; 2 lbs., 90c; 5 lbs., \$1.95. Not prepaid, ¼ lb., 20c; ½ lb., 30c; 1 lb., 45c; 2 lbs., 80c; 5 lbs., \$1.75.

## 50c Home Collection

½ lb. Burpee's Stringless Bush Beans	1 oz. Southern Giant Curled Mustard
1 oz. Early Blood Turnip Beet	1 qt. Silverskin Onion Sets

Sent postpaid on receipt of 50c.



Red Wethersfield Onion

# Russell-Heckle's GARDEN PEAS



**Culture.** One pound will plant 100 feet of single row; 60 to 75 pounds for an acre. A light soil is best for the early varieties, a heavier soil that will retain moisture for the main crop. Well-rotted manure may be used to enrich the soil. Peas are a cool weather crop. Plant the early smooth varieties, Alaska and Extra Earlies as soon as the ground can be worked in February. The wrinkled varieties should be planted in March. Make main crop plantings 3 to 4 inches deep. Peas are usually planted in double rows, 12 inches between rows and 2 to 3 inches between seeds. Plantings should be made every week until hot weather.

## Smooth Varieties

Sow in February and March.

**EARLY ALASKA.** 54 days. Vine 30 inches, pods light green, 2½ inches long and ¾ inch wide. Very plump, full pods; seeds bluish green and smooth.

**ALASKA WILT-RESISTANT.** Seeds smooth, bluish green. Desirable for planting in wilt-infested areas; otherwise they are the same as Alaska.

**AMEER.** Ready to pick in 60 days. Peas smooth, green, larger than Alaska. Called in some sections the Big Pod Alaska. Height of vine 36 inches.

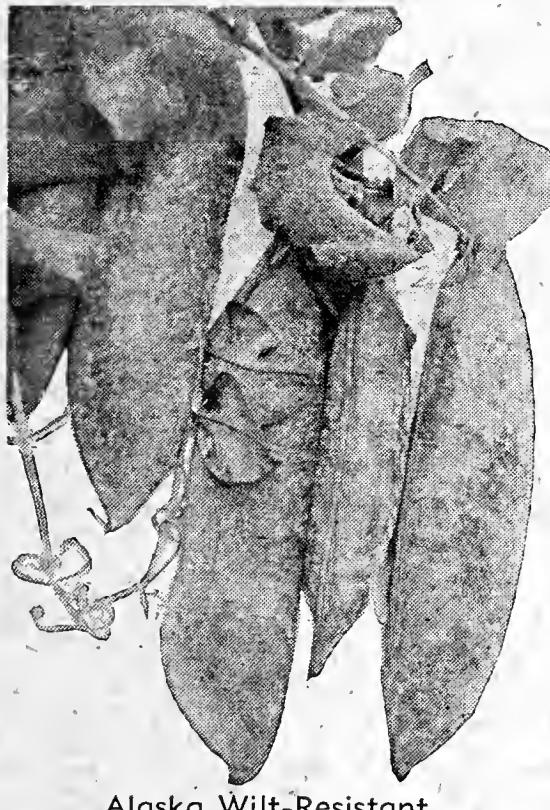
**FIRST AND BEST EXTRA EARLY.** 54 days. Height 24 inches. Seeds smooth, yellowish green; pods 2½ inches. Very prolific and early.

**LARGE WHITE MARROWFAT.** 82 days. Vines 5 feet tall. Peas light green, 3 to 3½ inches long; seeds round, creamy buff in color; very productive.

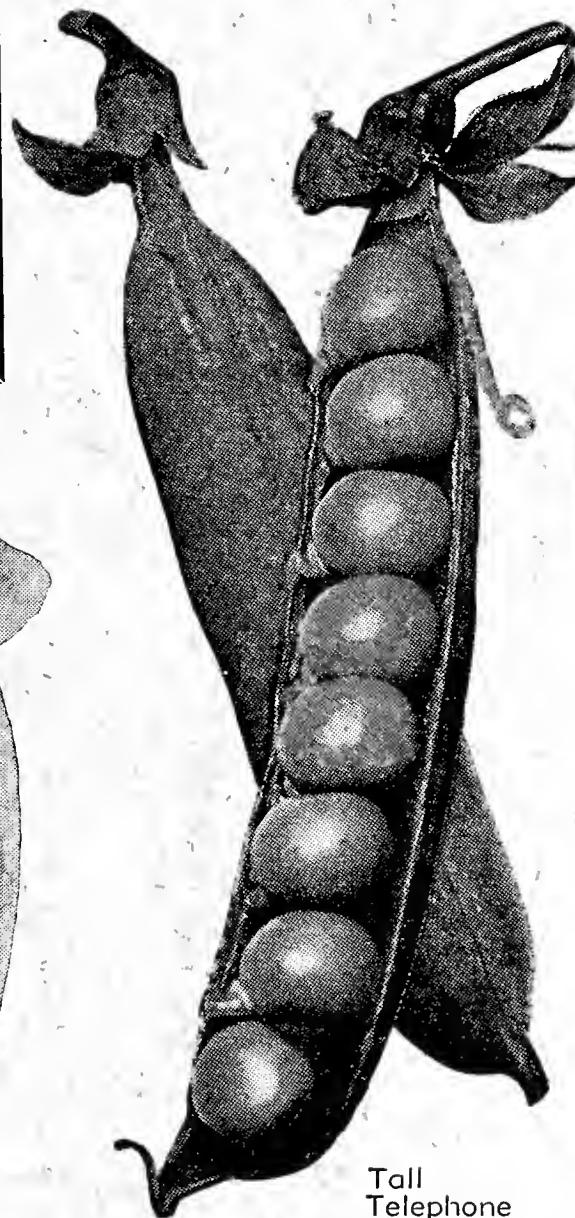
**Prices—These 5 Smooth Varieties of English Peas**

Postpaid, ¼ lb., 10c; ½ lb., 15c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 80c; 7½ lbs., \$1.05. Not prepaid, ½ lb., 10c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 60c; 7½ lbs., 80c.

Prices for market gardeners are given on our Green Ink List.



Alaska Wilt-Resistant



Tall Telephone

## Home Collection English Peas

Enough to sow 200 feet of drill.

½ lb. Wilt-Resistant Alaska  
½ lb. Little Marvel  
½ lb. Thos. Laxton  
½ lb. Tall Telephone  
Sent postpaid for only 50c.

Thomas Laxton

## Wrinkled Varieties

Sow in March and April.

**Prices on All Varieties of Wrinkled English Peas**

Postpaid, ¼ lb., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 45c; 5 lbs., 85c; 7 lbs., \$1.10. Not prepaid, ½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 65c; 7 lbs., 85c.

**AMERICAN WONDER.** Dwarf variety. Vines 12 to 14 inches high. Matures in 58 days. Pods 3 inches long, medium green seeds, wrinkled, sweet and tender.

**BLISS EVERBEARING.** Ready for picking in 72 days. Vines 30 inches tall. Peas plump, 3 inches long, wrinkled, of fine flavor.

**CHAMPION OF ENGLAND.** Excellent for home gardens. Ready for picking in 78 days. Vines 4½ to 5 feet high; pods 3 inches long, ½ inch wide, straight and blunt. Peas wrinkled, green, and of fine quality.

**DWARF TELEPHONE.** Can be picked in 70 days after planting. Vines 24 inches, stocky and thrifty; pods 4¼ inches long and ¾ inch wide, tapering at end.

**LAXTONIAN.** 62 days. Prolific, large podded, dwarf variety; easy to grow. Vines 22 inches high, dark green; peas 4 inches long, ¾ inch wide, plump, tapered at tip. Peas tender, sweet, wrinkled, cream colored.

**LAXTON'S PROGRESS.** 60 days. Vines dwarf, 18 inches high, dark green, very prolific; pods very deep green, 5 inches long and ¾ inch wide, filled with light greenish cream, tender wrinkled peas.

**LITTLE MARVEL.** One of the sweetest and most delicious dwarf Peas on our list. Vines 18 inches tall. Ripens its crop in 62 to 64 days. Needs no support. Pods dark green, 3 inches long, plump and straight, blunt-ended, filled with medium size wrinkled, green peas as sweet as you ever tasted.

**MCLEAN'S LITTLE GEM.** Vines 18 inches tall. Ready to pick in 62 days. Pods medium green, 2¾ inches long and ½ inch in width. Seeds wrinkled, medium size, rich green, very sweet.

**TALL TELEPHONE.** A favorite market variety. Vines 4 to 4½ feet tall. Ready to pick in 72 days. Pods borne singly, 4½ inches long and ¾ inch wide, plump, straight, tapering at end. Seeds large, wrinkled, green in color, of fine table quality.

**THOMAS LAXTON.** Unsurpassed as a quality Pea, whether for home use, market or shipping. Ready to pick in 57 days after they are up. Vines 3 to 3½ feet tall, dark green; pods are also deep green, 3½ inches in length and ½ inch wide, plump, blunt; peas wrinkled, cream-green, very sweet, tender and delicious.

# PEPPERS

**Culture.** Peppers should be started in a hotbed or cold frame and transplanted about the end of May into a sunny corner of the garden, in rows about 2 feet apart, with the plants about 20 inches between them in the rows. In warmer sections they can also be sown in open ground in a prepared seedbed when all danger from frost has passed. When the little plants are about 3 inches in height, transplant as above into the rows where they are to remain. Some very rich fertilizer stirred into the soil when the plants are about 6 inches high, will be found very beneficial to the crop.

**CHINESE GIANT.** 80 days from plants. This is the largest mild Pepper ever developed, measuring 4 to 5 inches in diameter and of equal length. It is deliciously sweet and an ideal home garden variety. Plants dwarf, stocky and thickly set with enormous, unusually shaped, but attractive fruits that are chunky, twisted, slightly crumpled and square-ended. Color rich, bright green changing to a scarlet-red when ripe. Flesh thick and tender. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 20c; oz., 35c; 2 ozs., 60c;  $\frac{1}{4}$  lb., 95c;  $\frac{1}{2}$  lb., \$1.65; 1 lb., \$3.00; 2 lbs., \$5.60. Not prepaid,  $\frac{1}{4}$  lb., 90c;  $\frac{1}{2}$  lb., \$1.60; 1 lb., \$2.90; 2 lbs., \$5.50.

**BELL or BULL NOSE.** 60 days from plants. An early, prolific, standard variety with blunt fruits  $2\frac{3}{4}$  by 3 inches; deep green changing to scarlet; flesh thick and mild in flavor.

**CALIFORNIA WONDER.** 75 days from plants. A popular Pepper throughout the United States possessing qualities that make it ideal for stuffing or salads. The thickness of flesh, often measuring  $\frac{3}{8}$  of an inch, unknown in any other variety of Pepper, is one of the points of excellence. In addition, it is firm, crisp, juicy, sweet and mild, without a trace of pungency. Plants upright and prolific. Fruits 4-lobed, 4 by  $4\frac{1}{2}$  inches, attractive, smooth, uniform, very heavy; deep green changing to bright crimson at maturity.

**LONG RED CAYENNE.** 70 days from plants. The most popular hot variety used for canning, pickles and drying. Plants large with fruits borne in great abundance,  $\frac{1}{2}$  to 4 inches, tapering to a point, twisted and deep green changing to red.

**PIMENTO.** 73 days from plants. The sweetest variety. Used extensively by canners; it is also desirable for home use in salads and for stuffed Peppers. Plants tall and productive. Fruits heart-shaped,  $2\frac{1}{2}$  by  $3\frac{1}{2}$  inches, very smooth, tapering to a single point, dark green turning to crimson. Flesh very thick and mild.

**RUBY KING.** 70 days from plants. Plants erect, vigorous and very productive. Fruits 3 by 5 inches, tapering, dark green turning to red. Flesh crisp, tender, and very mild, and pleasant to the taste.

**WORLD BEATER.** 75 days from plants. Combines the size of the Chinese Giant and the attractive shape and color of the Ruby King. Plants sturdy, erect and very productive. Fruits 4-lobed,  $3\frac{1}{2}$  by 5 inches, glossy and smooth, deep green when young, changing to bright scarlet when ripe. Flesh unusually thick, mild and sweet.

All prices on Pepper Seed on this page, excepting where noted otherwise, uniform as follows: Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c; 2 ozs., 45c;  $\frac{1}{4}$  lb., 70c;  $\frac{1}{2}$  lb., \$1.15; 1 lb., \$2.10; 2 lbs., \$3.90. Not prepaid,  $\frac{1}{4}$  lb., 65c;  $\frac{1}{2}$  lb., \$1.10; 1 lb., \$2.00; 2 lbs., \$3.80.

## THREE SPECIAL VARIETIES

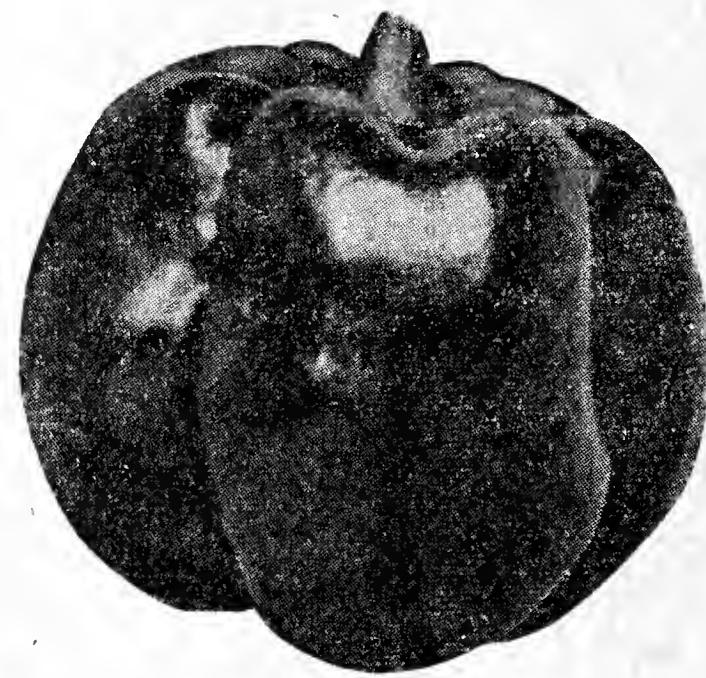
**BIRD'S EYE CREEOLE.** 92 days. Round, very pungent.

**RED CHILI.** 90 days. Narrow thin pods; very hot.

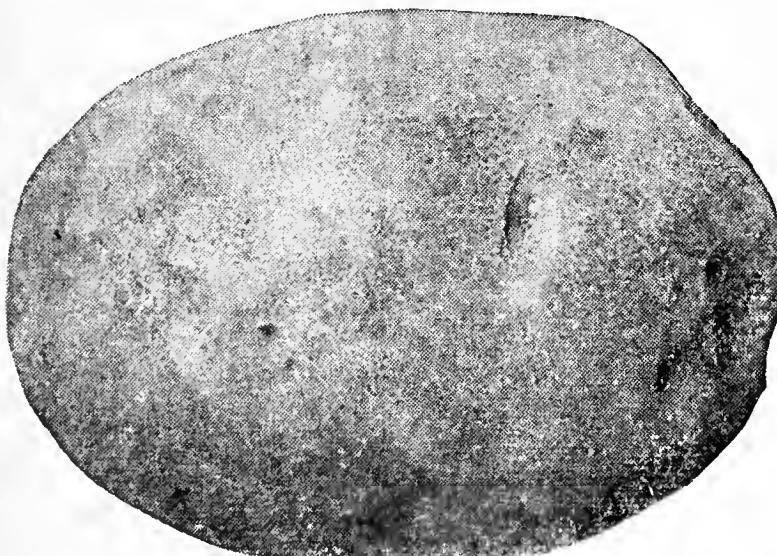
**TOBASCO.** 95 days. Small yellowish red, extremely hot.

Price Uniform as Follows:

Postpaid, pkt., 10c;  $\frac{1}{2}$  oz., 20c; 1 oz., 35c; 2 ozs., 60c;  $\frac{1}{4}$  lb., 90c.



Bell or Bull Nose



Certified Red Triumph

## Certified SWEET POTATOES

Plant only disease-free seed Sweet Potato Slips. They mean better quality and better crops.

**CERTIFIED NANCY HALL.** Skin yellow; meat sweet, of amber-yellow. Prices on request.

**CERTIFIED PORTO RICO YAMS.** Deep orange meat, soft, sweet and of best flavor; skin golden color with slight purplish tinge. Prices on Green Ink List.

### Sweet Potato Slips

Ready April 10th.

**CERTIFIED NANCY HALL.**  
**CERTIFIED PORTO RICO.**

Write for prices.



World Beater



Treat  
Irish and Sweet  
Potatoes  
Before Planting  
With  
**SEMESAN - BEL**

Write for prices.  
It will prevent diseases  
and grow potatoes smooth  
and of fine quality.

## Certified IRISH POTATOES

**Culture.** Potatoes can be grown in any soil provided it is fairly rich, but usually do best on loose, sandy loam and are of better quality than if planted on heavy clay soil. Cut the Potatoes in 4 or 6 pieces, so there is at least one eye on each piece. About 3 pieces should be planted in each hill, 3 to 4 inches deep, according to the time of planting, in rows 3 feet apart and 16 to 18 inches apart in the rows. Potatoes require 90 days to be ready to harvest. Use 3-8-6 Commercial Fertilizer in drills before planting, cover it with soil and then plant as instructed above. Don't use barnyard manure.

**CERTIFIED RED TRIUMPH.** A popular early variety. Tubers are nearly round, with red, smooth skin, small, shallow eyes, very uniform in size and shape. One of the prettiest Potatoes grown.

**CERTIFIED IRISH COBBLER.** An early variety. The eyes are strong, well-developed, and slightly indented. The flesh is creamy white and of fine quality and flavor.

**RED WARBA POTATO.** A new variety, early maturing; makes in 72 days; skin red, flesh white and of fine quality. Tubers are oval, large size and is a very heavy cropper. The Warba potato is a two-crop variety, produces a crop in the spring also for fall. Price, postpaid, 4 lbs., 65c; 15 lbs., \$1.55. Not prepaid, 4 lbs., 50c; 15 lbs., \$1.25.

On account of market fluctuations, we are unable to name prices on Irish Potatoes. Will be pleased to have you write during the month of January or later. Will then quote prices for prompt or future shipments.

# PUMPKINS



Kentucky Yellow Field

**Culture.** Three pounds per acre alone, or one pound sown with corn. Plant in good soil when the ground has become warm in hills 6 to 8 feet apart each way. Plant 3 inches deep. Thin to two plants to a hill. Cultivate thoroughly until the vines cover the ground.

**KENTUCKY YELLOW FIELD.** 98 days. A fine Pumpkin, nearly 2 feet in diameter. Flesh dull orange color, extra thick. Heavy yielder and excellent keeper. Largely used for canning and stock feeding. Postpaid, oz., 5c; 2 ozs., 10c; 1/4 lb., 15c; 1/2 lb., 20c; 1 lb., 35c; 5 lbs., \$1.20; 10 lbs., \$2.00. Not prepaid, 1/2 lb., 15c; 1 lb., 25c; 5 lbs., \$1.00; 10 lbs., \$1.75.

**Prices on All Pumpkins, Except Where Quoted Otherwise:**

Postpaid, pkt., 5c; oz., 15c; 2 ozs., 25c; 1/4 lb., 30c; 1/2 lb., 45c; 1 lb., 70c; 5 lbs., \$2.70. Not prepaid, 1/4 lb., 25c; 1/2 lb., 40c; 1 lb., 60c; 5 lbs., \$2.50.

## RADISH

**Culture.** To be tender and crisp, Radishes must be grown quickly and this requires rich soil and moisture. Begin as early as possible in the spring and sow at intervals of about 10 days in a light, rich, deeply worked soil. For fall and winter, sow in August and September. One ounce sows 50 feet in drills; 10 to 12 lbs. to the acre.

Radishes give interest to the diet and stimulate the dullest appetite. Radishes are healthy, they contain some vitamin B, mineral salts, calcium, sodium, iron and phosphorus. They can be enjoyed from early spring until late fall by sowing succession crops, first the spring varieties, then the summer and winter sorts.

**Radish Seed Prices:**

Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c; 1/4 lb., 20c; 1/2 lb., 25c; 1 lb., 45c; 2 lbs., 75c; 5 lbs., \$1.60; 10 lbs., \$2.85. Not prepaid, 1/4 lb., 15c; 1/2 lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.40; 10 lbs., \$2.60. 100-lb. prices on request.

**COOPER'S SPARKLER WHITE TIP.** 21 days. The most brilliant in appearance of all Radishes. The upper half of the root is a brilliant scarlet, almost the entire lower half a pure white. This strain runs remarkably uniform in color, size and true ball shape. The best selling variety on practically all markets.

**EARLY SCARLET GLOBE.** 22 days. Recommended for your main sowing. Usable almost as soon as the very earliest Radishes and for a period of a week or 10 days afterwards, or until they are nearly an inch through; and during that time they stay crisp, solid and tender, and mild in flavor. Color pure brilliant scarlet; very uniform in size and in shape, which is a rather long oval. Tops and roots small. Excellent for market.

**EARLY SCARLET TURNIP.** 21 days. A good variety for outdoor planting. Small, round variety of a deep, rich scarlet color. Crisp, tender flesh.

**EARLY SCARLET TURNIP WHITE TIP.** 21 days. A beautiful scarlet variety of handsome shape, having a white-tipped tail or root, very desirable. Flesh is white and of best quality. One of the most popular and salable varieties.

**EARLY LONG SCARLET.** 28 days. A very desirable variety for the garden, being very early, long in shape, of a beautiful bright scarlet color, and very tender and brittle.

**WHITE ICICLE.** 27 days. This is the most beautiful of the early long white varieties; of a pearly white color; fine for either forcing or outdoor culture. The roots are of slender form, crisp and tender even when fully developed and of delicate flavor. One of the best varieties for outdoor summer planting for the home garden and market.

**CHINA ROSE.** One of the very best for fall and winter use; bright rose color; flesh white and firm; superior quality. 52 days.

**LONG BLACK SPANISH.** Grayish black in color; pungent, exceedingly crisp. 55 days.

**WHITE CHINESE.** This is the Mammoth and finest of the Chinese varieties; they grow to a very large size, from 12 to 15 inches long and 5 inches in diameter, and mostly above ground; the roots are shaded by the heavy foliage, and are always crisp and mild. 60 days.

Special prices on Radish Seed in Packets: For 25c select any 7-5c packets. For 30c select any 4-10c packets. We pay the postage.

## SALSIFY or Vegetable Oyster

Very generally known as the Oyster Plant. The roots are boiled like carrots or parsnips or half boiled and grated fine, made into small flat balls, dipped in a batter and fried like oysters, of which their flavor greatly partakes.

**Culture**—Sow the seed in drills 18 inches apart, 1 inch deep, and when up, thin them out to 4 inches apart in the row. One ounce will drill 50 feet, 6 to 7 lbs. will sow one acre.

**MAMMOTH SANDWICH ISLAND.** 80 days. Roots 7 to 8 inches long, 1 to 1 1/2 inches thick, skin almost white, flesh mild and delicately flavored.

Postpaid—Pkt., 5c; oz., 15c; 2 ozs., 25c; 1/4 lb., 45c; 1/2 lb., 80c; 1 lb., \$1.35; 2 lbs., \$2.50; 5 lbs., \$5.20.  
Not Prepaid—1/4 lb., 40c; 1/2 lb., 75c; 1 lb., \$1.25; 2 lbs., \$2.40; 5 lbs., \$5.00.



Salsify

# SPINACH

**Culture**—Requires but little culture, it is one of the most easily managed of all vegetables. The main crop is sown from September until November. For summer use it may be sown at intervals of 2 or 3 weeks, from March to November. One ounce to 100 feet of drill; 10 to 12 pounds to an acre. During hot dry weather, Spinach does not grow so well, but in suitable weather with plenty of rain it is ready for use in about five weeks from sowing seed.

Price on All Varieties of Spinach Seed on This Page:

Postpaid: Oz., 5c; 2 ozs., 10c;  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; 1 lb., 35c; 5 lbs., \$1.10; 10 lbs., \$1.75.  
Not Prepaid:  $\frac{1}{4}$  lb., 10c;  $\frac{1}{2}$  lb., 15c; 1 lb., 25c; 5 lbs., 90c; 10 lbs., \$1.50; 25 lbs., \$3.50.  
Ask for prices on larger quantities.

**BLOOMSDALE CURLED SAVOY.** 42 days. A first early, vigorous variety, desirable for local gardens, shipping to distant markets, and for canning. Plants erect in growth, hardy and attractive. Leaves large, crumpled, somewhat blistered in appearance, dark glossy green.

**GIANT NOBEL.** 45 days. This new giant thick-leaved strain is the heaviest producer of all, and is quite slow in running to seed. The giant thick green leaves are huge, rounded, lightly crumpled, very succulent, crisp, tender and of delicious flavor. It grows rapidly into the largest Spinach in cultivation.

**LONG-STANDING BLOOMSDALE SAVOY.** 42 days. A new variety of merit. It is just as early as the old type Bloomsdale, but stands in marketable condition 10 to 14 days longer. Intensely crumpled, blistered, uniform, deep glossy green leaves.

**LARGE VIROFLAY.** 55 days. Desirable for canning as the leaves grow clean and upright. Green leaves are very large, broad and pointed at end.

**NORFOLK BLIGHT-RESISTANT SAVOY.** 45 days. Type same as Bloomsdale, but darker. Valuable where blight is prevalent.

**NEW ZEALAND.** The "cut-and-come-again" Spinach, grows luxuriantly during hot weather. Yields continually from spring until late fall. The plant is bushy in form, and produces great quantities of succulent, rich green leaves of delightful flavor. As the tops are cut off, side shoots develop and in a few days another crop may be cut. Plant from March until June in rows 2 feet apart each way. Thin to 12 inches apart. Soak seed in warm water for 24 hours to promote quicker germination.



Norfolk Blight Resistant Savoy

**CUPROCIDE (Cuprous Oxide).** An excellent material for the treatment of Spinach seed before sowing to prevent the fungous disease known as damping-off. Use at the rate of 2 teaspoonsfuls to 1 pound of seed. 4-oz. can, 35c; 1-lb. can, 90c; 5-lb. can, \$3.75. Postpaid, 45c, \$1.00, and \$3.95.



Large Viroflay

## SPINACH SEED COLLECTION

$\frac{1}{4}$  lb. Bloomsdale Savoy.  
 $\frac{1}{4}$  lb. Blight-resistant Savoy.  
 $\frac{1}{4}$  lb. Presto Savoy-Leaved.  
 $\frac{1}{4}$  lb. New Zealand.

Regular value, 60c  
Send postpaid for only **50c**

**PRESTO SAVOY SPINACH.** A new Savoy Spinach with prickly seeds. Plants vigorous, hardy, and robust, ready for the market in about 42 days. The crumpled leaves are large, very dark green and handsome. Presto Spinach is adapted either for spring or fall sowing and is a fine variety for either market or home gardens.

# SQUASH

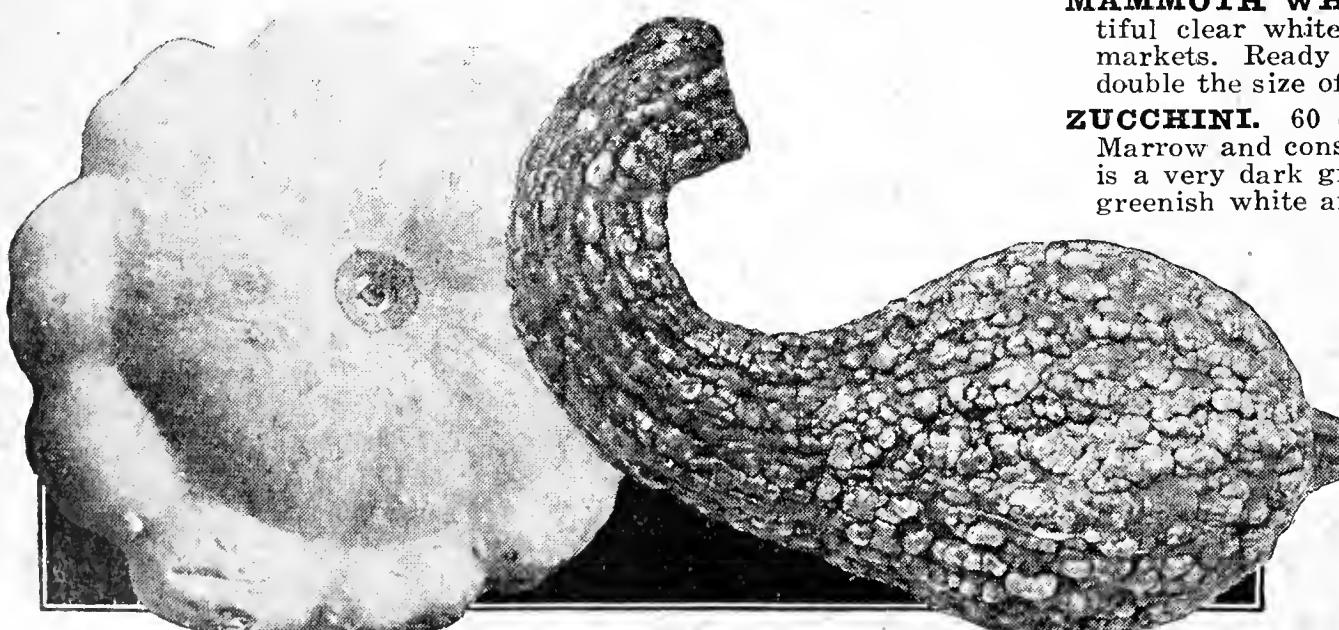
**Culture**—Plant after weather has become fully settled and the ground is warm and dry, in hills 5 to 6 feet apart for bush varieties, and 6 to 8 feet apart for running varieties. Hills should be thoroughly manured. Slightly elevate the hills and place 7 or 8 seeds in each, finally leaving but three of the strongest plants. Press the seeds down firmly before covering, and cover early planted ones 1 inch deep, and late ones  $1\frac{1}{2}$  inches. One ounce of seed makes 40 hills; 3 to 4 pounds to an acre.

Prices on All Varieties of Squash Listed, Excepting Where Quoted Otherwise:

Postpaid: Pkt., 5c; oz., 15c; 2 ozs., 20c;  $\frac{1}{4}$  lb., 30c;  $\frac{1}{2}$  lb., 40c; 1 lb., 70c; 2 lbs., \$1.20; 5 lbs., \$2.45.  
Not Prepaid:  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 35c; 1 lb., 60c; 2 lbs., \$1.10; 5 lbs., \$2.25.

**EARLY PROLIFIC STRAIGHTNECK.** The 1937 All-America selection that has proven the good judgment of the committee who selected this outstanding variety of Squash. It is of small type, straight, and less warted than other types; has a bright yellow color and the fruits are tender and delicious when in marketable condition. It is ready for picking in about 50 days. Postpaid, pkt., 10c; oz., 25c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.35. Not Prepaid:  $\frac{1}{4}$  lb., 45c;  $\frac{1}{2}$  lb., 75c; 1 lb., \$1.25.

**GIANT YELLOW CROOKNECK.** 56 days. Produces fruit nearly double the size of the Yellow Summer Crookneck. The flesh is rich golden yellow and of the finest quality and flavor.



Early White Bush

Golden Summer Crookneck

**EARLY WHITE BUSH.** 53 days. Size 3 by 8 inches,  $2\frac{1}{2}$  pounds. The well known White Scalloped or Patty Pan Squash. One of the earliest, very productive; skin and flesh a light cream-white. Popular for shipment to northern markets from Florida, and a favorite for home gardeners everywhere.

**GOLDEN SUMMER CROOKNECK.** 50 days. Of a dwarf, bushy habit and very productive; bears early and all summer; true Crookneck type; rich golden yellow color; thickly warted. Its cooking qualities are unexcelled. One of the best varieties for the market or table.

**GIANT YELLOW STRAIGHTNECK.** 55 days. A selection from the Giant Yellow Crookneck, and is the same in all respects except the neck, which is almost straight, and thus more easily packed for shipment.

**HUBBARD.** 78 days. This is an old favorite and one of the best of the Winter Squashes. The vines are vigorous and very productive. The fruits are large, heavy and moderately warted, with a very hard shell. The flesh is light orange-yellow, fine grained, thick, dry, and of superior flavor.

**MAMMOTH WHITE BUSH.** Early, uniform and prolific. Beautiful clear white skin and flesh. For family gardens and nearby markets. Ready for picking in 53 days.  $3\frac{1}{2}$  by 10 inches, nearly double the size of Early White Bush and more regular.

**ZUCCHINI.** 60 days. An improved strain of short, thick Italian Marrow and considered more desirable in some localities. The color is a very dark green, almost black, no striping or mottling. Flesh greenish white and of fine flavor.

## Vegetable Spaghetti

Sets fruits freely just like the squash. These are about 8 inches long and about 4 inches in diameter. Skin smooth, creamy white. You pick when well matured, and cook whole without cutting, in boiling water for about 18 minutes. Then cut open and you will find a quantity of stringy spaghetti-like contents, which is quite tasty when seasoned with salt, vinegar, sauce, etc. The fruits keep well and can be stored and used as wanted.

Pkt., 10c;  $\frac{1}{2}$  oz., 15c; oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; 1 lb., \$1.60, postpaid.

# TURNIPS

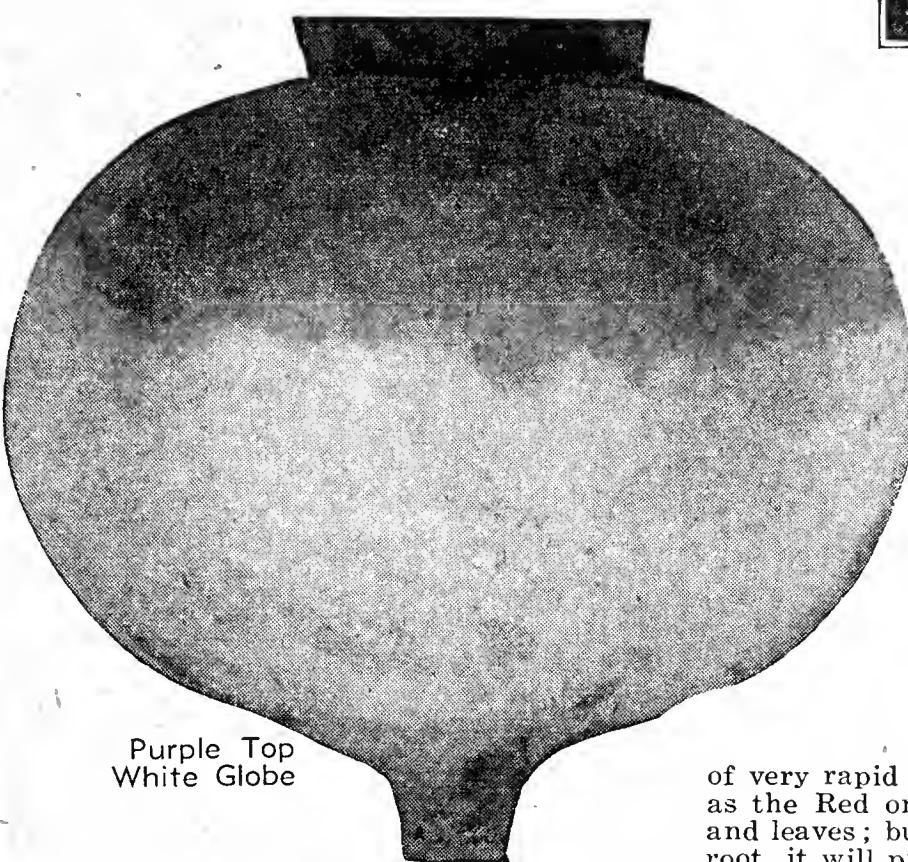
**Culture**—Spring sowing should be put in early, so that they will attain a good size before hot weather. For the regular crop, sow the early sorts in July or August, the later sorts during August, and the salad varieties during August and September. Sow either broadcast or in drills 2 feet apart, thinning out to 6 inches and roll the ground after sowing. Cover the seed about  $\frac{1}{2}$  inch. Sow 1 pound to acre in drills, 2 pounds broadcast. Rutabaga or Swede should be sown in July, and always in drills 20 inches apart, and then the plants thinned out to stand 6 inches. As the plants grow ridge up to them, otherwise they will form no bulbs.

**Turnip Seed Prices**, all varieties except where priced otherwise: Postpaid, 1 oz., 5c; 2 ozs., 10c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.30; 10 lbs., \$2.25. Not prepaid,  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 5 lbs., \$1.10; 10 lbs., \$2.00; 25 lbs., \$4.00; 100 lbs., \$15.00.

**AMERICAN RED TOP GLOBE.** 60 days. Grown for us on contract from our own special seed stock. A perfect globe shape with bright red or purple top and snow-white bottom. It does not taper like other types of the same variety, due to the utmost care in seed selection. Prices, postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 50c. Not prepaid,  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.00.

**PURPLE TOP MILAN.** 44 days. This celebrated foreign variety is the earliest strap-leaved turnip in cultivation; flesh pure white, purple top, of flat form and excellent quality. Highly recommended for an early crop. Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 45c. Not prepaid,  $\frac{1}{2}$  lb., 25c; 1 lb., 35c; 5 lbs., \$1.50.

**WHITE MILAN.** 44 days. Early as the Purple Top Milan; of a perfect flat form; pure white; small foliage and of fine quality; as an early market variety it is unsurpassed. Postpaid, pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 45c. Not prepaid,  $\frac{1}{2}$  lb., 25c; 1 lb., 35c; 5 lbs., \$1.50.



Purple Top White Globe

Special Prices on Turnip Seed for Market Gardeners given on our Green Ink List.

**EARLY WHITE FLAT DUTCH.** 46 days. Is of a beautiful flat form, of pure white color and of a delicate, mild flavor. It produces bulbs entirely free from small roots and with long, narrow strap leaves growing erect, which permits close culture.

**EXTRA EARLY WHITE EGG.** 60 days. A very popular and desirable early variety; pure white; of egg shape. The flesh is sweet, firm and mild.

**JAPANESE SHOGOIN LOUSE-RESISTANT TURNIP.** 95 days. A new variety that is becoming very popular in the South. Especially valuable for turnip greens, which are always in good demand during the late spring and summer months in the South. The leaves grow upright, about 2 feet high when fully developed, which make it practically free from insect attacks. The roots are pure white, between flat and globe in shape; however, this wonderful new sort is more largely planted for the tops than the roots.

**LARGE WHITE GLOBE.** 70 days. A popular variety. Makes large, round white roots, flesh white, solid, sweet and fine-grained, maturing in about 75 days.

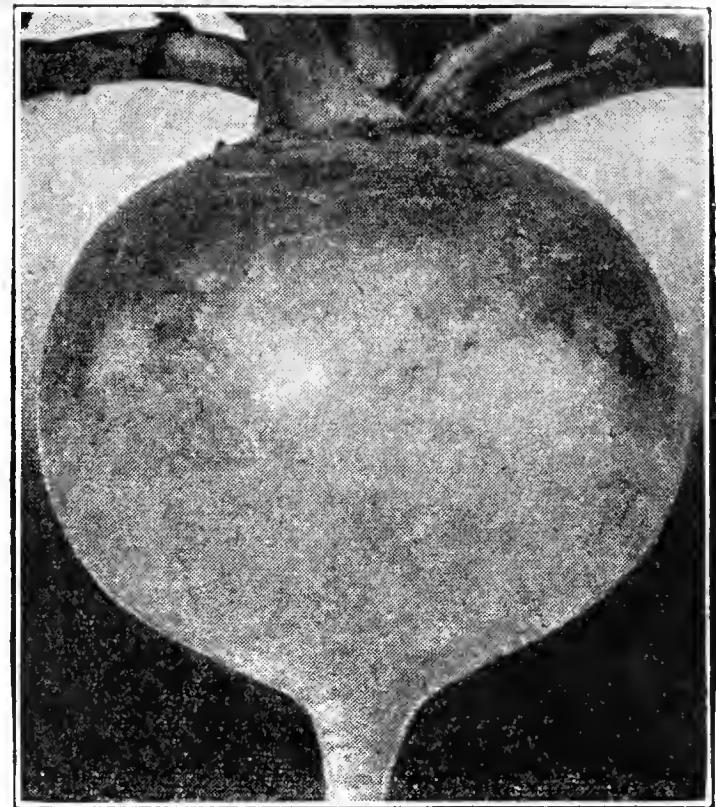
**LARGE YELLOW AMBER GLOBE.** 76 days. This is a very beautifully formed variety, of an amber color, quite productive, solid flesh, and attractive in appearance. It keeps well and is desirable for either table use or stock feeding.

## RUTABAGAS or SWEDE TURNIPS

**Culture**—The same as turnips except that Rutabagas require a longer season for maturing and should be sown the latter half of July.

**Purple-Top Yellow Rutabaga.** One of the best and heaviest cropping sorts. It is of globe shape with a rich purple top and light yellow below the ground. The quality is fine. Postpaid, 1 oz., 5c; 2 ozs., 10c;  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 25c; 1 lb., 40c; 5 lbs., \$1.30; 10 lbs., \$2.25. Not prepaid,  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 20c; 1 lb., 30c; 5 lbs., \$1.10; 10 lbs., \$2.00.

For good Turnip Crop use our 4-8-4 Commercial Fertilizer.



American Red Top Globe

**LONG WHITE COW-HORN.** 70 days. A pure white variety with green top, growing in shape similar to a cow's horn. Is desirable for both table use and for stock feeding. The flesh is fine grained and well flavored.

**MIXED TURNIP.** A dependable mixture of all the fall and winter turnips, both for the turnips and for the greens that will keep your table supplied from fall until late spring. Sow liberally as they are good both for table use and stock.

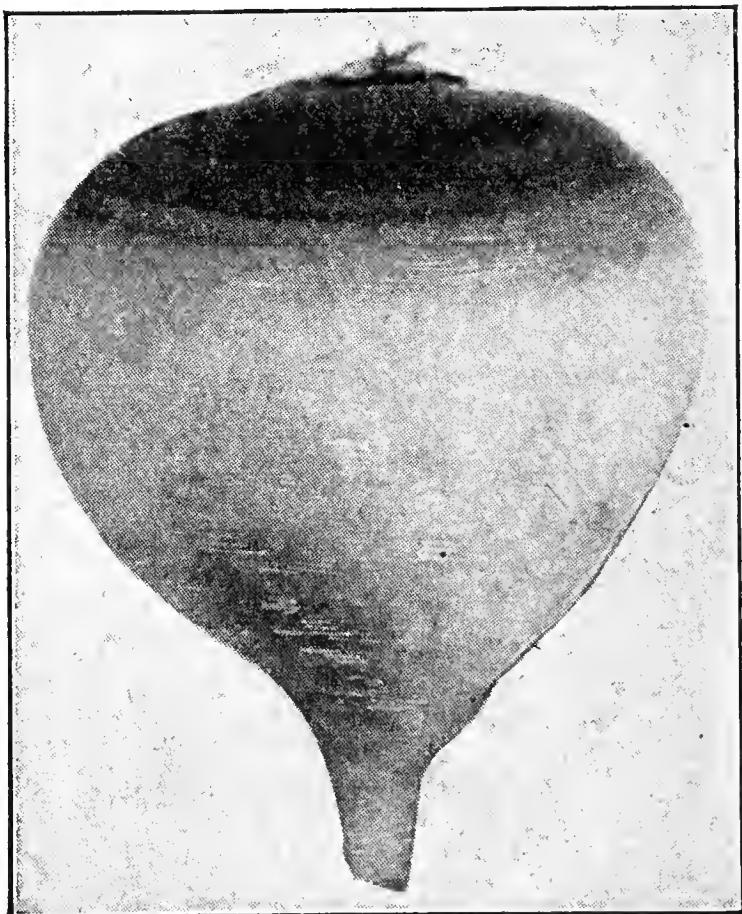
**PURPLE TOP FLAT STRAPLEAF.** 46 days. Perfectly flat form with a small tap-root and a bright purple top; the leaves are short and narrow. Fine table variety and excellent for feeding stock.

**PURPLE TOP WHITE GLOBE.** 60 days. This is one of the most valuable, most popular and most salable varieties now grown; it is of globe shape, flesh pure white, with a red or purple top, and of very rapid growth. It is of the same character and habit as the Red or Purple Top Flat, differing only in its form and leaves; but owing to the great size and thickness of the root, it will produce twice as much to the acre. It is also a good winter variety. It can be sown either broadcast or in drills, and is always a sure cropper.

**SOUTHERN PRIZE.** 70 days. Grown for winter and spring salads. Very hardy and stands the winter without protection; highly recommended.

**SOUTHERN SEVEN TOP.** 70 days. Cultivated very extensively in the South for the tops, which are cooked and served as greens. Does not produce edible roots. Very hardy. May be left standing in the open ground during the winter.

**YELLOW ABERDEEN.** 80 days. Resembles a very handsomely formed Rutabaga. It can be sown with success fully a month later than the Swede, and is desirable for table use.



Purple Top Yellow Rutabaga

# TOMATOES

Six to eight ounces to an acre; one ounce to 1,500 plants.

**Culture**—The seed may be started in hotbed in March, or sufficient plants for family use can be grown in pots or boxes indoors with very little trouble. Be particular to give plants the benefit of fresh air and sun whenever judicious, for the purpose of hardening them, and cover with mats when necessary to prevent them from frosting. The two extremes of heat and cold are equally injurious. It is customary with the best gardeners to remove the plants from hotbeds to the cold frames, allowing a distance of several inches between the plants. In April select and prepare the soil and set the plants 3 feet each way. Hoe and draw earth to the stems. For general crop sow from the middle of April or during May. The number of days on varieties shown means the time from setting of plants. To prevent blossom end rot and blight, spray plants when young with Pyrox. For healthier tomato plants treat seeds before sowing with Semesan.

**CERTIFIED MASTER MARGLOBE.** 83 days. Bright red. This Special Strain seed is taken from tomatoes of the first, or crown set, from plants which were grown from vine-selected stock seed. This method of selection brings the Marglobe into production just a little earlier. The Marglobe was developed by Dr. Pritchard of the United States Department of Agriculture. It is rust- and wilt-resistant; fruits are a globe shape; seed cavities small. Marglobe is one of the best main crop tomatoes. It is a good shipper and canner. It has a sturdy vine which carries the fruit well, with plenty of foliage to protect its fruit. Postpaid, pkt., 10c;  $\frac{1}{2}$  oz., 25c; 1 oz., 40c; 2 ozs., 70c;  $\frac{1}{4}$  lb., \$1.15;  $\frac{1}{2}$  lb., \$1.85; 1 lb., \$3.35. Not prepaid,  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$1.75; 1 lb., \$3.25.

**BREAK O' DAY.** 70 days. Beautiful red. An extra early perfect globe hybridized from Marglobe and other earlier tomatoes. Almost as early as Earliana. All the wilt- and disease-resistant qualities of Marglobe but at least two weeks earlier. Good shipper. Stands hot and dry weather. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 45c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.20; 1 lb., \$2.20. Not prepaid,  $\frac{1}{4}$  lb., 70c;  $\frac{1}{2}$  lb., \$1.15; 1 lb., \$2.10.

**BEEFSTEAK.** 90 days. Large fruit, 4 to  $5\frac{1}{2}$  inches across, nearly always perfectly smooth, glossy, bright red flesh. Very solid; excellent quality, few seeds; ripening up to stem; good keeper and a good shipper. Postpaid, pkt., 10c;  $\frac{1}{2}$  oz., 25c; 1 oz., 40c; 2 ozs., 75c;  $\frac{1}{4}$  lb., \$1.00;  $\frac{1}{2}$  lb., \$1.75; 1 lb., \$3.25. Not prepaid,  $\frac{1}{4}$  lb., 95c;  $\frac{1}{2}$  lb., \$1.70; 1 lb., \$3.15.

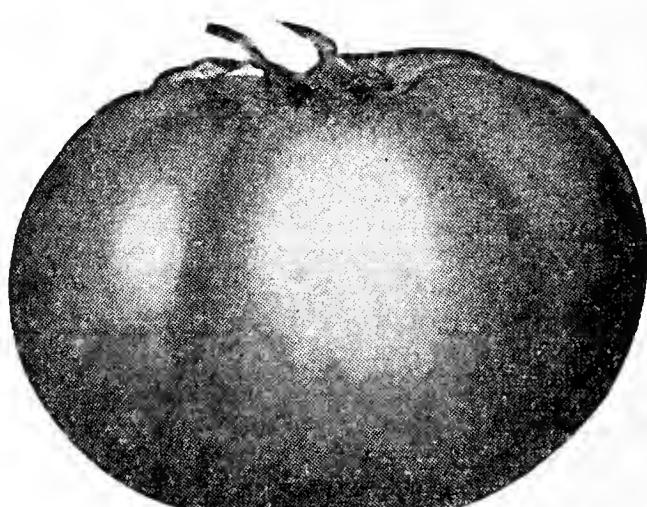


Gulf State Market

**BRIMMER.** 88 days. A great, big, solid red Tomato, 15 to 16 inches in circumference, weighing 2 to  $2\frac{1}{2}$  pounds each. It is all meat, very few seeds. The vines bear a tremendous load of fruits up to frost. Postpaid, pkt., 10c;  $\frac{1}{2}$  oz., 25c; 1 oz., 45c; 2 ozs., 85c;  $\frac{1}{4}$  lb., \$1.15;  $\frac{1}{2}$  lb., \$1.90; 1 lb., \$3.50. Not prepaid,  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$1.85; 1 lb., \$3.40.

**EARLY DETROIT.** 84 days. Pink. Vines vigorous and productive. Fruit round and nearly globe-shaped, firm, and very smooth. A splendid second early variety. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; 1 lb., \$2.35. Not prepaid,  $\frac{1}{4}$  lb., 70c;  $\frac{1}{2}$  lb., \$1.20; 1 lb., \$2.25.

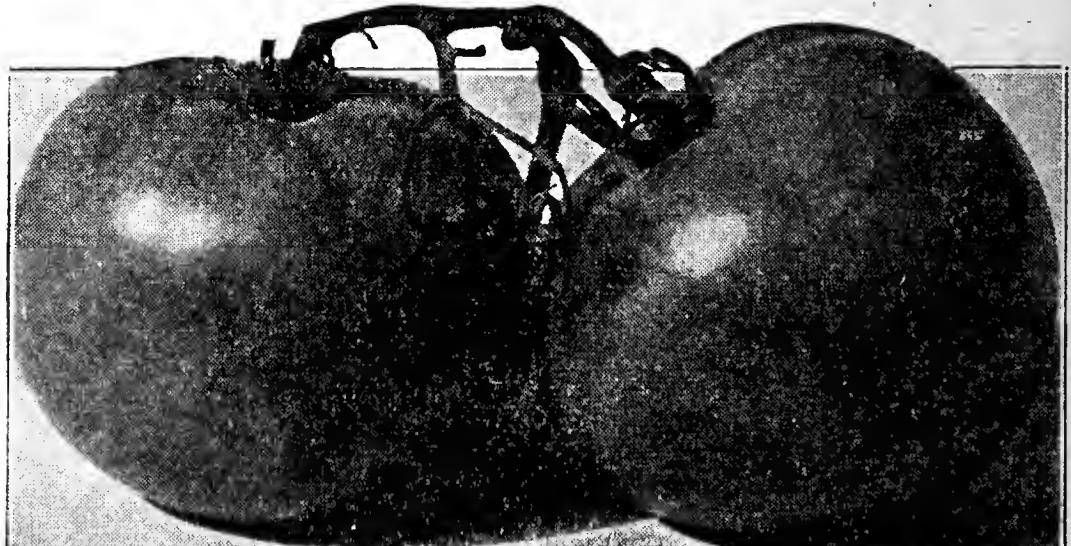
**GULF STATE MARKET.** 77 days. Fruit purplish pink, smooth, firm, globe-shaped, fine for market or home gardens. Vine vigorous and productive. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; 1 lb., \$2.35. Not prepaid,  $\frac{1}{4}$  lb., 70c;  $\frac{1}{2}$  lb., \$1.20; 1 lb., \$2.25.



Ponderosa

## AERO CYANAMID

Use on your Tomato crop. Will produce larger fruit and a heavier crop. See Green Ink List for prices.



Brimmer Tomato

Break o' Day

**BONNY BEST.** 74 days. Deep red. Here is an old favorite that has been continuously selected for earliness, solidity, smoothness, and evenness of ripening. It is a vigorous grower, producing bright red fruit throughout the season. The heavy foliage is a good protection against sun-scald. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; 1 lb., \$1.85. Not prepaid,  $\frac{1}{4}$  lb., 55c;  $\frac{1}{2}$  lb., 95c; 1 lb., \$1.75.

**EARLIANA.** 68 days. Scarlet-red. Coming into the market early it commands top prices. It produces an abundance of remarkably solid fruit of uniform shape and rich, bright red color. The tomatoes are borne in clusters. They are of good flavor and contain few seeds. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 65c;  $\frac{1}{2}$  lb., \$1.05; 1 lb., \$2.00. Not prepaid,  $\frac{1}{4}$  lb., 60c;  $\frac{1}{2}$  lb., \$1.00; 1 lb., \$1.90.

**GREATER BALTIMORE.** 80 days. Bright red. Being a deeper, more blocky tomato than Stone, Greater Baltimore has become a universal canning favorite. It produces an unusually heavy tonnage per acre, having fine shaped fruit, very heavy, firm and meaty. For main and late crops it is also popular among home and market gardeners. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; 1 oz., 20c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 55c;  $\frac{1}{2}$  lb., 85c; 1 lb., \$1.35. Not prepaid,  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.25.

**MARGLOBE.** 83 days. Bright red. This is our regular stock of Marglobe, while not equal to our other strains of this excellent variety, it is as good as any stock sold by other seed houses. Our grower procured the original stock from the U. S. Department of Agriculture. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 55c;  $\frac{1}{2}$  lb., 85c; 1 lb., \$1.35. Not prepaid,  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.25.

**NEW STONE.** 86 days. Deep red. Vines vigorous and productive. Fruits large, smooth, solid; very heavy. This is a favorite canners' variety. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 10c; 1 oz., 20c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 75c; 1 lb., \$1.20. Not prepaid,  $\frac{1}{4}$  lb., 45c;  $\frac{1}{2}$  lb., 70c; 1 lb., \$1.10.

**PRITCHARD.** 84 days. Heavy cropper of scarlet, globe-shaped fruits. Fruit very heavy, inside color beautiful red, desirable for canning. Abundant foliage to protect from sun-scald. Excellent tomato for the home garden and market gardener, as well as long distance shipper. Postpaid, pkt., 5c;  $\frac{1}{2}$  oz., 15c; 1 oz., 25c; 2 ozs., 40c;  $\frac{1}{4}$  lb., 75c;  $\frac{1}{2}$  lb., \$1.25; 1 lb., \$2.20. Not prepaid,  $\frac{1}{4}$  lb., 70c;  $\frac{1}{2}$  lb., \$1.20; 1 lb., \$2.10.

### SPECIAL OFFER Postage Paid

For 50c  
select any 7 — 10c pkts. of seed  
For 50c  
select any 4 — 15c pkts. of seed  
For 60c  
select any 3 — 25c pkts. of seed

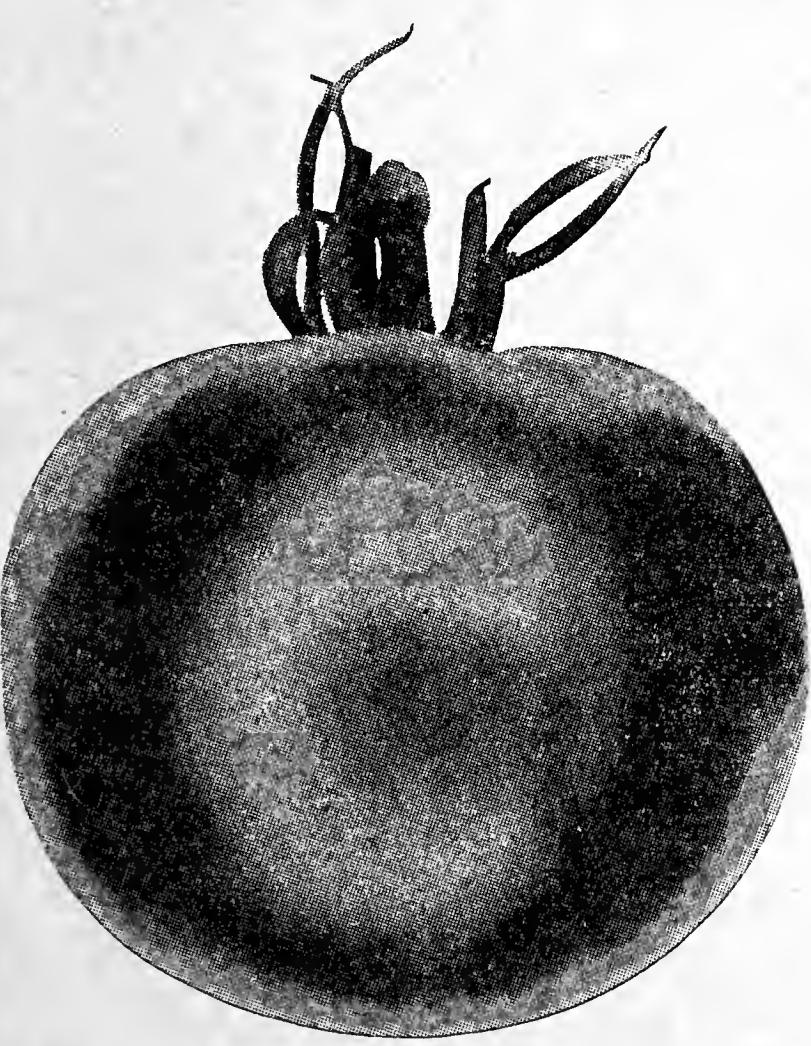
### PRESERVING TOMATOES

Prices of the following 3 varieties uniform as follows: Pkt., 10c; 3 pkts., 25c;  $\frac{1}{2}$  oz., 25c; 1 oz., 45c, postage paid.

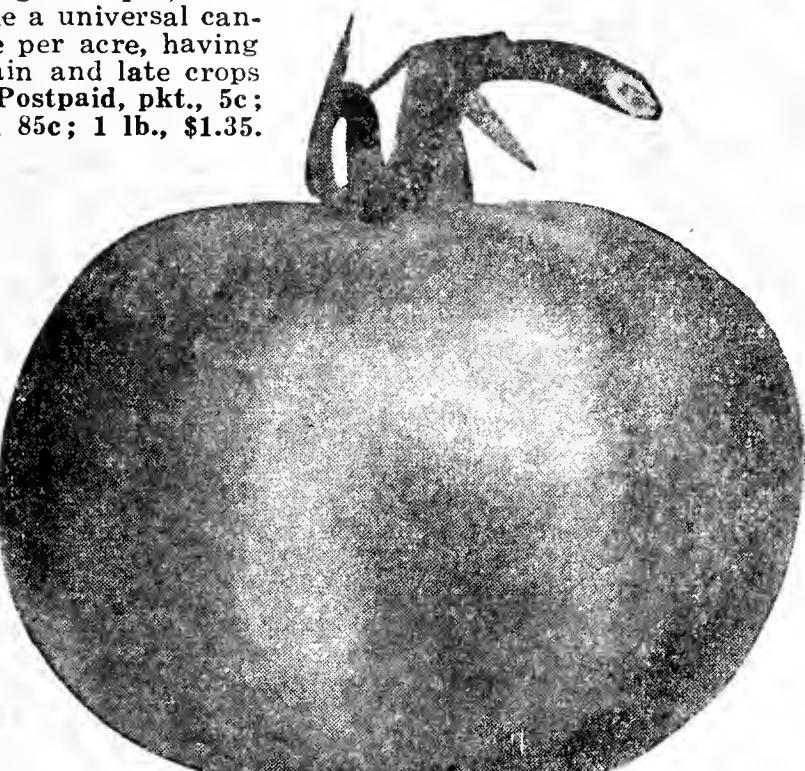
**RED PEAR.**  
**RED PLUM.**  
**YELLOW PEAR.**



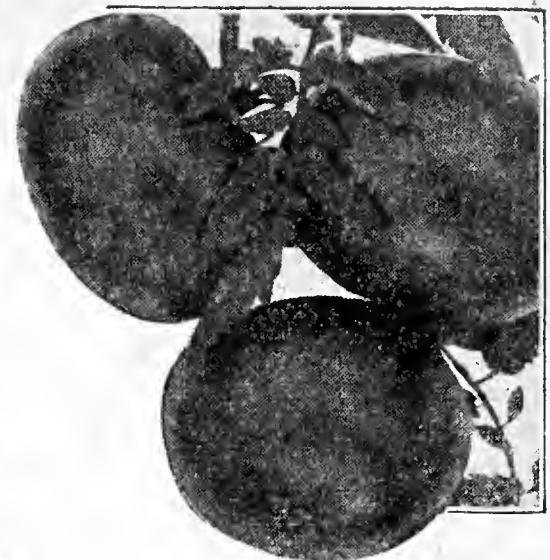
Pritchard



Certified Greater Baltimore



Earliana



Bonny Best

For Tomato blight  
and blossom end rot  
on tomatoes, we recom-mend

### PYROX

1-lb. jar 49c  
Postpaid, 59c

## TOMATO PLANTS

Ready April 1st, following varieties only:

**BONNY BEST**

**BEEFSTEAK**

**GULF STATE**

**MASTER MARGLOBE**

**NEW STONE**

**PONDEROSA**

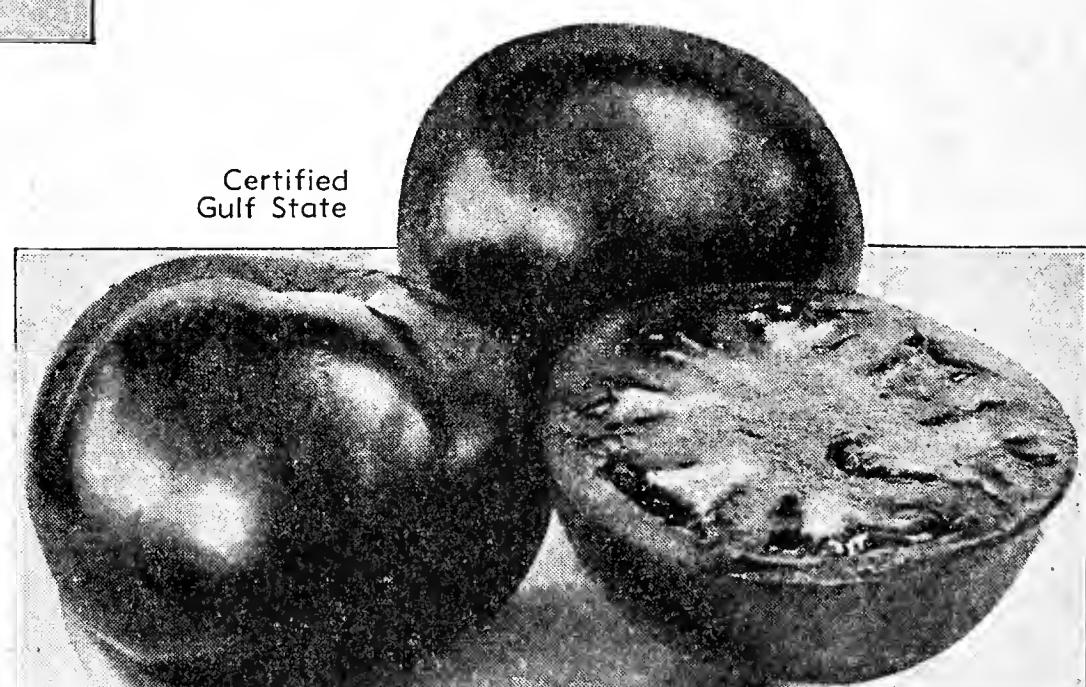
### HOTBED or SEEDLING PLANTS

Postpaid, 100, 65c; 500, \$2.25; 1000, \$3.40. Not prepaid, 100, 50c; 500, \$2.00; 1000, \$3.00; 5000, \$12.50.

### TRANSPLANTED PLANTS

Same varieties as above—ready April 10th.

Postpaid, doz., 30c; 50, 75c; 100, \$1.00; 1000, \$5.75. Not pre-paid, doz., 20c; 50, 50c; 100, 75c; 1000, \$5.00.



Certified  
Gulf State

## CERTIFIED TOMATOES

It will pay you to plant certified Tomato seed. They are grown for purity, selectiveness, trueness to type, and freedom from diseases. Are all certified by the New Jersey Agricultural Department, under whose supervision they are grown.

Prices uniform on the following varieties: Postpaid, pkt., 10c;  $\frac{1}{2}$  oz., 25c; 1 oz., 40c; 2 ozs., 70c;  $\frac{1}{4}$  lb., \$1.15;  $\frac{1}{2}$  lb., \$1.85; 1 lb., \$3.35. Not prepaid,  $\frac{1}{4}$  lb., \$1.10;  $\frac{1}{2}$  lb., \$1.75; 1 lb., \$3.25.

Certified Bonny Best  
Certified Break o' Day  
Certified Earliana

Certified Gulf State  
Certified Marglobe  
Certified Master Marglobe

Certified Greater Baltimore

# R.-H. Co.'s Top Notch Flower Seeds

**Cultural Directions**—Light, rich loam is most suitable for flowers. The soil should be finely pulverized for best results. This is of paramount importance if one wishes to grow them successfully. They, in common with all other seeds, should be sown thinly and the soil pressed firmly over them and then covered lightly with damp peat moss. Water frequently. A good plan is: Sow the seeds in rows about 8 inches apart, then transplant to the permanent garden later.

Do not cover flower seed too deep. Shallow planting is desired. If the soil becomes dry, water it first before sowing seeds.

## Ageratum

An excellent annual for edging or bedding. They grow from 6 in. to 3 ft. and succeed most anywhere.

**BLUE BALL.** Compact ball-shaped plants, 6 to 8 in., flowers deep, dark blue. Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 35c.

**FINEST MIXED COLORS.** Pkt., 5c;  $\frac{1}{8}$  oz., 15c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 35c.

## Alyssum

Annuals that bloom freely throughout the summer. For borders, pots, rockeries or for cutting Alyssum is always satisfactory.

**SWEET ALYSSUM.** Height 1 foot. Flowers pure white. Pkt., 5c;  $\frac{1}{4}$  oz., 10c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

**GOLDEN YELLOW.** Dwarf yellow flowers, plant compact. Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 35c; oz., 60c.

**LITTLE GEM.** Plant extra dwarf, with snow-white flowers. Pkt., 10c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

## Amaranthus

Hardy annuals. Fine for backgrounds or center of beds, they grow from 2 to 4 feet high.

**CAUDATUS.** Drooping crimson flower spikes with yellow greenish foliage. Also known as Love-Lies-Bleeding. Pkt., 5c;  $\frac{1}{4}$  oz., 10c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

**CRUENTUS.** Showy, feathery heads. Also called Princess Feather. Pkt., 5c;  $\frac{1}{4}$  oz., 10c;  $\frac{1}{2}$  oz., 15c; oz., 25c.



Alyssum

## Antirrhinum (Snapdragon)

This half-hardy perennial is one of the most beautiful and showy garden flowers. Easily grown from seed and will bloom well the first season, and endures the winter and gives good results the second year, after which the plants disappear. Height 2 feet.

**SEMI-DWARF CRIMSON.** Deep blood-red. Pkt., 10c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; oz., \$1.50.

**SEMI-DWARF SILVER PINK.** Pearly, rose-pink; a rich shade. Pkt., 10c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; oz., \$1.50.

**DWARF MIXED.** Plants 15 to 18 inches high, many beautiful colors in mixture. Pkt., 10c;  $\frac{1}{4}$  oz., 90c;  $\frac{1}{2}$  oz., \$1.50.

**TALL MIXED.** Finest mixed colors, 2 $\frac{1}{2}$  to 3 ft. in height. Pkt., 5c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 35c; 1 oz., 50c.

### RUST-PROOF SNAPDRAGONS

A new race of vigorous growth and free of disease; excellent for borders, beds or cutting.

**CRIMSON.** Brilliant fiery crimson.

**PINK.** Charming rose-pink, very beautiful.

**YELLOW.** Fine large yellow bouquet flower.

**SHASTA.** Beautiful pure white color.

Price of any of the above four varieties Rust-Proof Snapdragon: Pkt., 15c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 85c;  $\frac{1}{2}$  oz., \$1.50.

**UNIVERSITY OF CALIFORNIA MIXED SNAPDRAGON.** All colors in gorgeous assortment of shades. Rust-proof strain. Pkt., 10c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; 1 oz., \$1.75.

## Aster

One of the easiest annual flowers to grow, height 2 feet. Sow seed early in March and transplant 18 inches apart.

### AMERICAN BEAUTY WILT-RESISTANT VARIETIES

Crimson      Flesh-Pink      White  
Purple      Mixed

Price above five Wilt-Resistant Asters: Pkt., 10c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00.

**GIANT COMET.** Branching sort with large full fluffy flowers, mixed colors. Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 60c.



New Bush Balsam

## ASTERS—Continued

**MAMMOTH GIANT PEONY-FLOWERED.** Immense flowers, very double, produced on long stems; a splendid variety for cutting. Mixed, all colors. Pkt., 10c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00.

**CHINA.** Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 35c; 1 oz., 50c.

**ALL COLORS MIXED.** A splendid combination of double and giant Asters, many colors. Pkt., 5c;  $\frac{1}{8}$  oz., 20c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 40c; 1 oz., 60c.

**ASTERMUMS.** Large double flowers resembling Chrysanthemums, plants branch freely and average 24 inches high. Mixed colors. Pkt., 10c;  $\frac{1}{8}$  oz., 30c;  $\frac{1}{4}$  oz., 50c.

## Balsam

**CAMELLIA-FLOWERED.** Double. An old favorite garden annual, commonly known as Lady Slipper. Two feet high. Double mixed. Pkt., 5c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

## New Bush Balsam

Of dwarf compact growth with double gardenia-like blossoms, a fine showy bedding plant.

**MIXED COLORS.** Pkt., 15c; 2 pkts., 25c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 60c.

## Balsam Apple

A very ornamental and quick-growing annual vine, grown for its fruit, which has medicinal qualities. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 35c.

## Balloon Vine

A rapid-growing climber, called Love-in-a-Puff, grows 6 to 10 feet in height. Annual. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 35c.

## Bachelor Button

This free-blooming annual is also known as Cornflower (*Centaurea cyanus*). Sow in open ground, very early in February or March, about  $\frac{1}{4}$  inch deep. Transplant 6 to 8 inches apart. Fine for borders, beds or cutting.

**DOUBLE BLUE.** Dark blue. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

**DOUBLE PINK.** Rosy pink. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

**DOUBLE RUBY.** Bright ruby. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

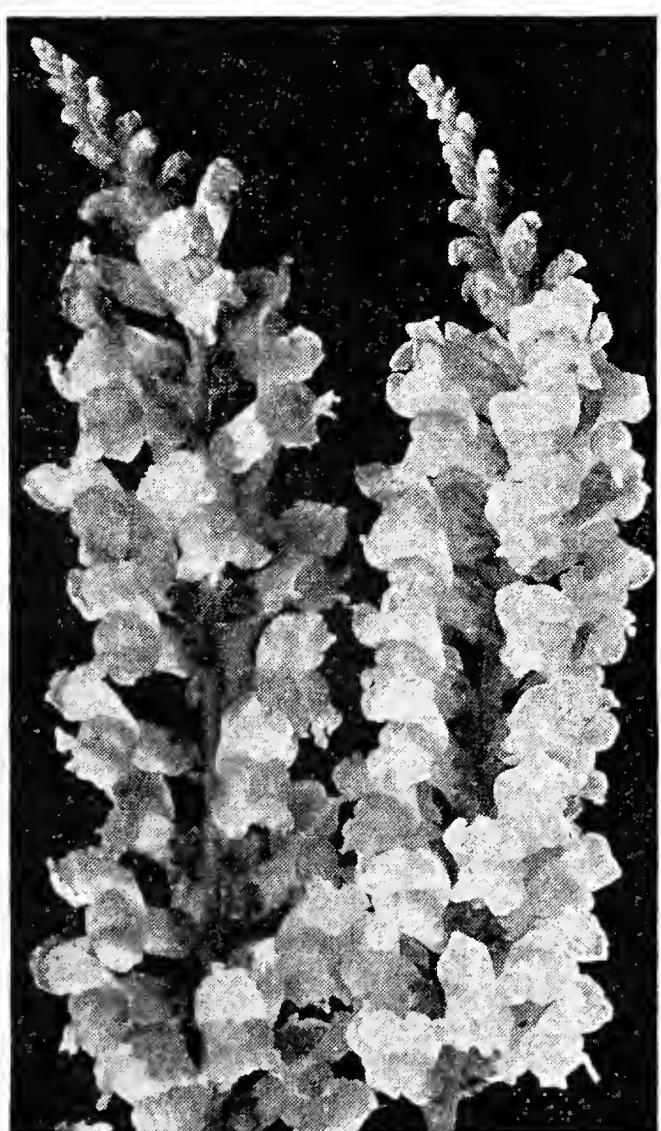
**DOUBLE RED BOY.** Rich red. Pkt., 15c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 60c.

**DOUBLE JUBILEE GEM.** Compact growth, 12 inches high; flowers double, vivid deep blue, easy to grow. Also known as Cornflower. Pkt. 15c;  $\frac{1}{16}$  oz., 35c;  $\frac{1}{8}$  oz., 60c;  $\frac{1}{4}$  oz., 75c.

**DOUBLE MIXED.** All colors. Pkt., 10c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

## Blue Lace Flower

Charming blue annual with dainty lavender and blue flowers on long stems. Sow indoors in March and transplant or sow outdoors in April and May. Blooms all summer. Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c; oz., 60c.



Rust Proof Snapdragons

## Special Offer

On 5c pkt.  
Flower Seeds

For \$0.25 select any 7—5c pkts.  
For .50 select any 15—5c pkts.  
For 1.00 select any 35—5c pkts.

## Calendula

One of the best hardy annuals. Plants 12 to 18 inches high; they have showy double flowers that bloom until frost. Grow in almost any garden soil.

**CAMPFIRE SENSATION.** Double rich brilliant orange flowers with a scarlet sheen. This is the new sensation Calendula. Pkt., 10c; 1/4 oz., 25c; 1/2 oz., 40c; oz., 60c.

**ORANGE SUNSHINE.** The 1934 All-America gold medal winner. Bright orange. Pkt., 10c; 1/4 oz., 25c; 1/2 oz., 35c; oz., 60c.

**MIXED CALENDULA.** All varieties and colors in mixture. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 20c; oz., 35c.

## Calliopsis

Free flowering annual, 1 1/2 to 2 feet in height, in bright showy yellow shades; fine for cutting. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 35c.

## Canary Bird Vine

This annual climbing vine grows 12 to 15 feet high and is covered with curiously shaped little canary-colored blossoms. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 35c.

## Candytuft

Hardy annual 8 to 10 inches in height. Good for edging or beds. Produces clusters of beautiful flowers in a wide range of colors, of easy culture.

**MIXED CANDYTUFT.** A wide assortment of colors. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 35c.

## Canterbury Bells

Produces large bell-shaped flowers, plants 2 feet in height, hardy biennial of easy growth.

**DOUBLE MIXED.** Pkt., 5c; 1/4 oz., 25c; 1/2 oz., 40c; oz., 60c.

**ANNUAL CANTERBURY BELL.** 1933 Gold Medal Winner. Blooms the first season from seed, very showy. Mixed colors. Pkt., 10c; 1/4 oz., 60c; 1/2 oz., 90c; oz., \$1.50.

## Cannas

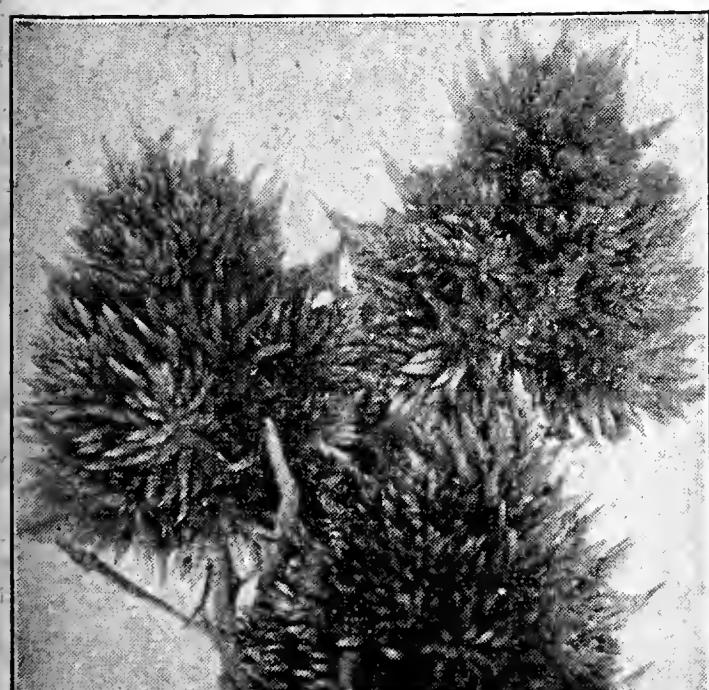
Start in boxes in February or March. Cut seeds on side before planting so moisture can penetrate. Finest Crozy mixed Cannas. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

## Carnation

Half-hardy plants that will bloom the first season from seed. Start indoors in boxes or beds in March and transplant to the open ground in May.

**GIANT GRENADE.** This is an extra fine double variety, bright ruby-red and does well in this section. Fine for cut flowers. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 70c; 1/2 oz., \$1.25.

**CHABAUD'S GIANT DOUBLE.** Sweet scented. The large flowers are double and beautifully fringed. Height 18 inches. Mixed colors. Pkt., 15c; 1/8 oz., 60c; 1/4 oz., \$1.00; 1/2 oz., \$1.50.



Chinese Woolflower

## Cardinal Climber

The vine attains a height of 20 to 30 feet and produces small, glowing scarlet flowers. Annual. Pkt., 10c; 1/4 oz., 35c; 1/2 oz., 50c; oz., 75c.

## Castor Beans (Ricinus)

This showy annual is used for its foliage. Makes a splendid background as it attains a height of 8 to 9 feet, very attractive. It is also useful to keep moles out of the ground. Plant in April, 6 to 8 feet apart.

**ZANZIBARIENSIS.** Tall growing, has bright colored foliage. Pkt., 10c; 1/2 oz., 20c; oz., 30c.

**MIXED RICINUS.** A fine assortment of many-colored varieties. Pkt., 5c; 1/2 oz., 15c; oz., 25c.

## Chinese Woolflower

Grows rapidly, 2 to 3 feet high. The flower heads resemble a ball of wool. Tender annual. Sow in March. Pkt., 10c; 1/4 oz., 40c; 1/2 oz., 60c; oz., \$1.00.



Castor Beans (Ricinus)

## Chrysanthemum

Free-flowering annuals that bloom the first season, 1 to 1 1/2 feet in height, of simple culture. Sow in March and April.

**DOUBLE DWARF CORONARIUM.** Lovely button-shaped flowers, 1 1/2 inches across, plants 18 inches high. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 30c.

## Cobaea Scandens

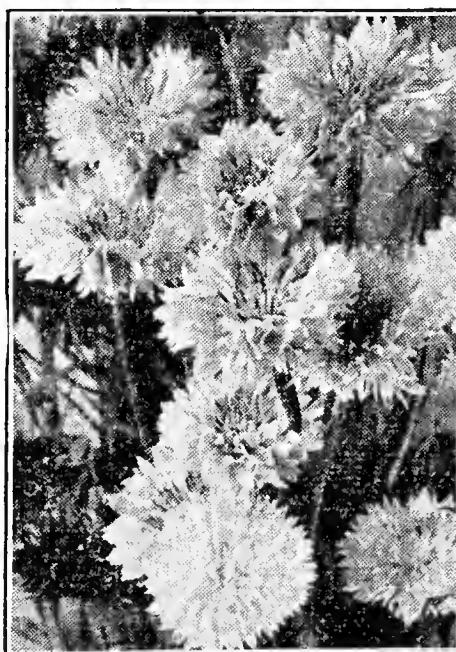
This annual climbing vine grows 18 to 20 feet in a season. It is very attractive and produces large bell-shaped purple flowers. Blooms until frost. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 35c; oz., 60c.

## Cockscomb

Fine for beds or borders. When grown as specimen plants they make a grand display and will stand almost any kind of weather. They will succeed in almost any situation. Annual. Sow in March.

**DWARF MIXED.** Many colors of Celosia in mixture. Pkt., 5c; 1/4 oz., 40c; 1/2 oz., 60c; 1 oz., 90c.

**FLAME OF FIRE.** Produces feathery combs of fiery scarlet plants, grow 18 to 20 inches in height. Pkt., 15c; 2 for 25c; 1/32 oz., 40c; 1/16 oz., 60c.



Bachelor Button

## Cardinal Climber

The vine attains a height of 20 to 30 feet and produces small, glowing scarlet flowers. Annual. Pkt., 10c; 1/4 oz., 35c; 1/2 oz., 50c; oz., 75c.

## Castor Beans (Ricinus)

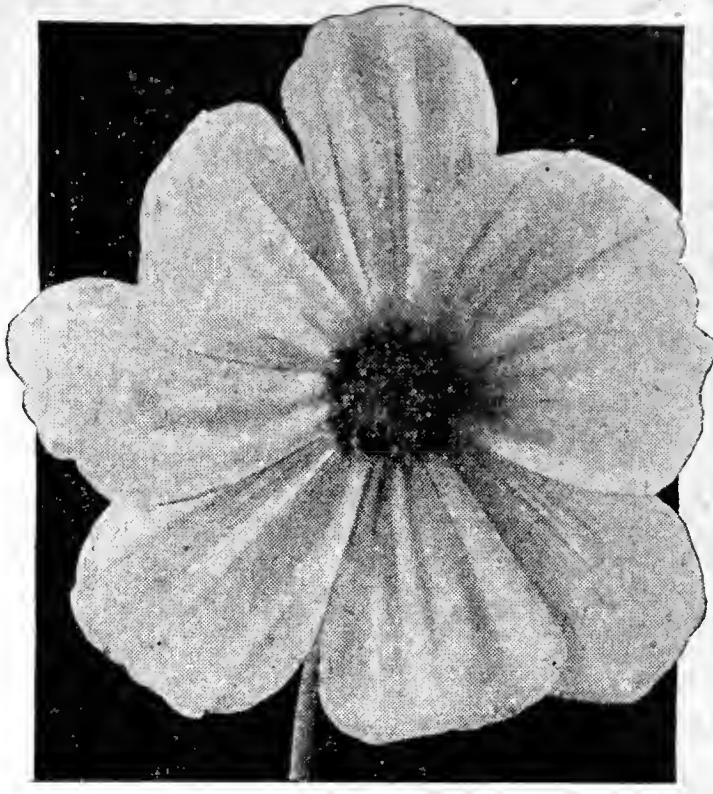
This showy annual is used for its foliage. Makes a splendid background as it attains a height of 8 to 9 feet, very attractive. It is also useful to keep moles out of the ground. Plant in April, 6 to 8 feet apart.

**ZANZIBARIENSIS.** Tall growing, has bright colored foliage. Pkt., 10c; 1/2 oz., 20c; oz., 30c.

**MIXED RICINUS.** A fine assortment of many-colored varieties. Pkt., 5c; 1/2 oz., 15c; oz., 25c.

## Chinese Woolflower

Grows rapidly, 2 to 3 feet high. The flower heads resemble a ball of wool. Tender annual. Sow in March. Pkt., 10c; 1/4 oz., 40c; 1/2 oz., 60c; oz., \$1.00.



Cosmos, New Sensation, Pinkie

## Coleus

Tender annual. Sow seed indoors and transplant. Leaves many shades and combinations of yellow, green and red, mixed colors. Pkt., 10c; 1/8 oz., 75c; 1/4 oz., \$1.25; 1/2 oz., \$2.00.

## Columbine

Hardy perennials. Profuse blooming, making choicest cut flowers on long stems. They succeed best in shady, moist places, and grow from 1 to 2 feet in height. Mixed double varieties in many colors.

**DOUBLE MIXED.** Pkt., 5c; 1/8 oz., 30c; 1/4 oz., 50c; 1/2 oz., 75c.

**LONG-SPURRED MRS. SCOTT ELLIOTT.** The most desirable, having very long spurs. Choicest hybrid mixed. Pkt., 10c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25.

## Coreopsis

Fine large blooms, golden yellow on long, graceful stems. Especially suited for cutting and blooms all summer. Hardy perennial. Mixed colors. 2 1/2 feet. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

**DOUBLE SUNBURST.** Large, golden yellow. Full double flowers. Pkt. 10c; 1/8 oz., 25c; 1/4 oz., 35c; 1/2 oz., 50c.

## Cosmos

There is no other tall annual so useful or pretty as the Cosmos. Flowers very large. Petals fringed and plain in many beautiful colors; excellent for background or in front of large shrubs, or in the back of low-growing plants. Sow seed in March, thin to 18 to 24 inches to give them room. Height 3 to 4 feet.

**KLONDYKE.** Gorgeous orange-colored flowers. Pkt., 10c; 1/4 oz., 25c; 1/2 oz., 40c; oz., 75c.

**ORANGE FLARE.** 1935 All-America Gold Medal Winner. A most beautiful deep orange color. Flowers earlier than Klondyke. Blooms all summer. Pkt., 10c; 1/4 oz., 50c; 1/2 oz., 75c; oz., \$1.00.

**NEW SENSATION PINKIE.** Extra large with fluted petals. A very bright pink. Pkt., 10c; 1/16 oz., 30c; 1/8 oz., 50c; 1/4 oz., 70c.

**NEW SENSATION PURITY.** Snow-white, fine, bold, large flowers. Pkt., 10c; 1/16 oz., 30c; 1/8 oz., 50c; 1/4 oz., 70c.

**GIANT FLOWERING PINK.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

**GIANT FLOWERING CRIMSON.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

**GIANT FLOWERING WHITE.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

**GIANT FLOWERING MIXED.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz.; 20c; 1 oz., 35c.

**EARLY FLOWERING.** Mixed colors. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 35c; 1 oz., 60c.

**DOUBLE CRESTED MIXED.** All shades of Double Crested Cosmos in mixture. Pkt., 10c; 1/4 oz., 60c; 1/2 oz., \$1.00; oz., \$1.50.



Cynoglossum

### Cypress Vine

A tender annual climber with finely cut leaves and small star-shaped scarlet flowers. Sow in April. Soak seed in warm water six hours before planting.

**MIXED CYPRESS VINE.** Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 35c.

### Cynoglossum

Also known as Chinese Forget-Me-Not. Free blooming; blue flowers. Sow in April. Hardy annual, 2 feet high. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

### Dahlias

Half-hardy perennial that will bloom the first season from seed. Sow early in boxes and transplant to open ground the middle of May.

**DOUBLE MIXED.** Pkt., 10c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; oz., \$1.75.

**SINGLE MIXED.** Pkt., 5c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c; oz., 75c.

### Daisy

These perennials are easy to grow. Sow seed in fall or early spring and transplant where wanted, 6 to 8 inches apart.

**SHASTA DAISY.** Large single white flowers with yellow centers; plants 2½ feet high. Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

### Delphinium

Hardy perennial Larkspur. Sow in early spring and transplant 24 inches apart in a shaded location, fine for perennial beds. Add lime to soil for better results.

**BELLADONNA.** Perennial light blue Delphinium. Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

**BELLAMOSUM.** Perennial dark blue Delphinium. Pkt., 10c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25; oz., \$2.00.

**PERENNIAL MIXED DELPHINIUM.** Many colors in assortment. Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

### Eschscholtzia

The well-known California Poppy. Annuals that bloom profusely in early summer, of easiest culture, which makes them valuable as a bedding plant; 1 foot in height. Sow seed in February and March where they are to remain.

**AURANTIACA.** Deep orange shade.

**GOLDEN WEST.** Bright golden yellow.

**SCARLET BEAUTY.** Rich deep scarlet.

**Salmon Beauty.** Beautiful salmon-pink.

Price above 4 varieties Eschscholtzia: Pkt., 10c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

**MIXED ESCHSCHOLTZIA.** All colors in a fine mixture. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 20c; oz., 30c.

### Euphorbia

(Snow-on-the-Mountain)

Very showy, of easy growth. The plant has bright green leaves and as the summer advances the edges of the leaves become white. They grow well in the sun and do not require any special rich soil. Hardy annual. Plant in March. Two feet in height, very attractive for beds. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 50c.

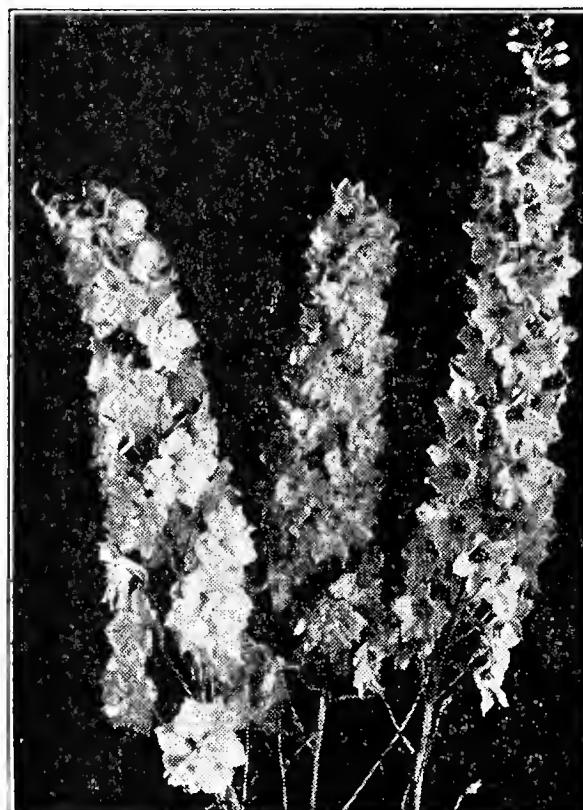
### Forget-Me-Not

Sow in early spring and transplant. Fine for shady or moist locations. Half-hardy perennial, 8 inches in height. Pkt., 5c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; oz., 75c.

### Foxglove

Hardy reseeding biennial, a popular favorite in old-fashioned gardens. Height 3 feet. Sow seed early in boxes and transplant.

**FINEST MIXED.** All colors in assortment. Pkt., 5c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c; oz., 60c.



Delphiniums

### Four O'clock

Hardy annual of easiest culture. Succeeds best in open situations. Sow in March and April.

**MIXED COLORS.** Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

### SPECIAL OFFER ON PACKET FLOWER SEEDS

For 25c select any 7-5c size packets.  
For 50c select any 15-5c size packets.  
For 30c select any 4-10c size packets.  
For 50c select any 7-10c size packets.

### Gaillardia

Splendid showy annuals and perennials, remarkable for the profusion and brilliancy of their flowers. Excellent for beds or cutting. Height 1½ to 2 feet.

**BURGUNDY.** Perennial, coppery scarlet. Pkt., 10c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; oz., \$1.75.

**DAZZLER.** Perennial, maroon-red and yellow. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; oz., 70c.

**INDIAN CHIEF.** Annual, bronze-red. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 50c.

**PICTA, DOUBLE MIXED.** Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 50c.

### Gomphrena

(Globe Amaranth)

Annual, 1½ feet in height. Showy everlasting flowers resemble clover heads and when dried are used for winter bouquets. Excellent for bedding.

**MIXED, ALL COLORS.** Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

### Gourds

Ornamental annual climbing vines that will grow 10 to 16 feet in height. Excellent for covering walls, fences or waste places.

**MIXED SMALL VARIETIES.** Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

### Gypsophila

(Baby's Breath)

Small graceful flowers, borne on long feathery stems. No flower adds more grace to a bouquet than this easily grown plant. Sow seed in March and April. Height 18 inches.

**WHITE BABY'S BREATH.** Covent Garden Strain. Annual, large flowering pure white, very showy. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

**ROSEA.** Rose-pink, annual. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 20c; oz., 35c.  
**PERENNIAL WHITE.** Double pure white, hardy. Pkt., 10c;  $\frac{1}{4}$  oz., 45c;  $\frac{1}{2}$  oz., 75c; oz., \$1.25.

### Helichrysum

(Strawflower)

The large glittering colors of double flowers make a fine display in beds or borders, but are especially grown to dry for winter use. For this they should be cut when about one-third open and with as long stems as possible, remove the foliage and tie in bunches, then hang up to dry. Height of plant 2 to 2½ feet. Sow seed in March and April. Thin to 12 inches.

**MIXED.** All colors. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 45c.

**SEPARATE COLORS.** Crimson, Pink, Purple, Yellow. Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c; oz., 60c.

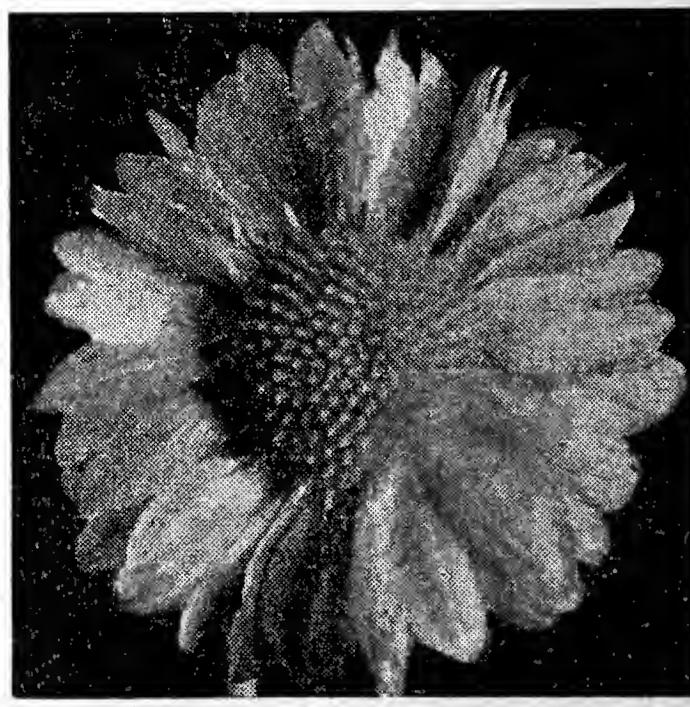
### Hyacinth Climbing Bean

An annual rapid climbing vine that attains a height of 10 to 16 feet; has purple seed pods, rosy violet blooms.

**MIXED COLORS.** Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.



Eschscholtzia, Golden West



Gaillardia

## Hollyhocks

Sow seed in early spring in boxes and transplant when 6 inches high, 2 feet apart. Plant in rich soil, water well if possible and they will grow 5 feet high. Hollyhocks make a fine background or a tall border; hardy biennial. The beautiful long spikes with their tissue paper-like flowers make a gorgeous display.

**DOUBLE MIXED.** A grand collection of all double Hollyhocks. Pkt., 10c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 60c; oz., \$1.00.

**SINGLE MIXED.** Showy large flowers in a splendid mixture. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 35c; oz., 60c.

**DOUBLE RED**      **DOUBLE PINK**  
Price above separate colors Hollyhocks:  
Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

## Ice Plant

Dwarf growing annual, 6 inches high. Excellent for hanging baskets, rockeries, etc. Starlike flowers with singular icy foliage. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 35c; oz., 60c.

## Kochia

(Mexican Fire Bush)

This is a showy annual and easy to grow. Plant in March or April. The plant forms a dense oval bush 2 to 4 feet in height with light green foliage, changing to carmine as the summer advances. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 20c; oz., 35c.

## Kudzu Vine

Called by some Jack-and-the-Bean-Stalk Vine. Hardy perennial that grows for many seasons, getting larger and larger each year. Forms a dense shade for porches, arbor walls and is also used for growing in gullies to avoid erosion of the soil. Easily grown from seed. Pkt., 10c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 45c.

## Lupin

Excellent for cutting, beds or borders. Easily grown annuals that give a splendid effect.

**ANNUAL MIXED COLORS.** Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

**TEXAS BLUE BONNET.** Native light blue flowers, very pretty. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 35c.

**PERENNIAL.** Blue, white and pink shades; handsome, hardy variety. Pkt., 10c;  $\frac{1}{4}$  oz., 35c;  $\frac{1}{2}$  oz., 50c; oz., 90c.

**RUSSELL'S LUPINS.** See inside front cover for prices and description.

## Linum (Flowering Flax)

**SCARLET FLAX.** A very attractive annual, growing 8 to 10 inches high. Flowers rich crimson, bloom until frost. Plant in a sunny location. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 35c.

**PERENNE.** Blue perennial Flax. Pkt., 10c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c.



Helichrysum

## Marigold

No flower stands more hard use in the hottest weather than the Marigold. It will continue to bloom profusely. Sow as soon as the ground is warm, thin to 18 inches. Tender annuals. The Marigold comes in dwarf and tall varieties. The new and improved kinds are much superior to the old small-flowered varieties. The Marigold is excellent for cut flowers, beds or massing, and succeeds splendidly all over the South.

**SUNRISE MARIGOLD.** See inside of front cover for prices and description.

**CROWN OF GOLD.** The Chrysanthemum top is surrounded by a collar of big broad petals of deep bright golden orange. The crown is the same color. The large flowers are entirely odorless. Grows 2 feet tall. Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 60c.

**DIXIE SUNSHINE.** One of the finest nearly odorless bright yellow double Marigolds. Flowers  $2\frac{1}{2}$  inches across and free blooming. Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**GIGANTEA SUNSET GIANTS.** Flowers average 5 inches across, ranging in color from deep orange to lemon-yellow and will come 65 per cent double; sweetly scented, almost odorless. Blooms early and plant will average 3 feet in height. Pkt., 10c; 3 pkts., 25c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**GUINEA GOLD.** Grows 2 feet high. Flowers semi-double, 2 inches across with wavy petals of a brilliant shade of orange and gold. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c.

**YELLOW SUPREME.** A beautiful clear, canary-yellow flower, which is 3 to 4 inches across. Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**LEMON QUEEN.** Double tall African type, large clear lemon-yellow flowers. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c.

**PRINCE OF ORANGE.** Stiff stemmed, large African Marigold, deep orange in color. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c.

**DOUBLE TALL AFRICAN MIXED.** 30 inches. A mixture of all tall African double varieties. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

**DOUBLE TALL FRENCH MIXED.** This class has compact firm blooms, all colors mixed. Plant grows 24 inches high. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c.

**DOUBLE DWARF AFRICAN.** Plants compact, 18 to 24 inches in height. Mixed, all colors. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 50c.

**DOUBLE DWARF FRENCH.** Splendid for borders, plants compact, 15 to 18 inches high, free-blooming. Mixed, all colors. Pkt., 5c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 30c; oz., 50c.

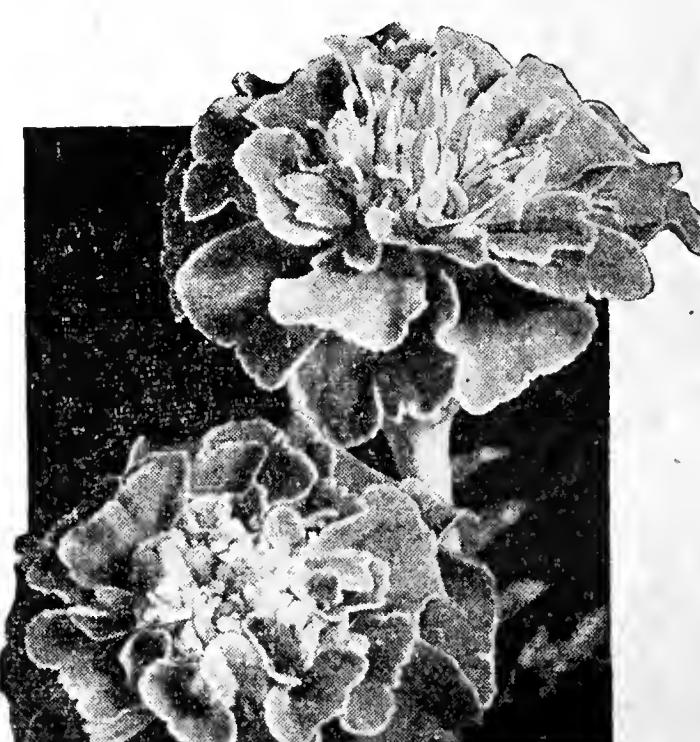
**FRENCH DWARF DOUBLE ORANGE.** Has beautiful ball-shaped all-orange flowers. Plants compact, 12 to 15 inches high. Pkt., 10c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**DWARF FRENCH DOUBLE, HARMONY.** Flowers medium size, very double with deep orange petals flanked with maroon, brown outside. Plants 12 to 14 inches in height. Pkt., 10c;  $\frac{1}{8}$  oz., 20c;  $\frac{1}{4}$  oz., 30c.

**ROYAL SCOT.** All-double, rich mahogany and gold in uniform stripes. Pkt., 10c;  $\frac{1}{8}$  oz., 45c;  $\frac{1}{4}$  oz., 75c.



Larkspur



Marigold, Double Dwarf French, Harmony

Kochia

## Morning Glory

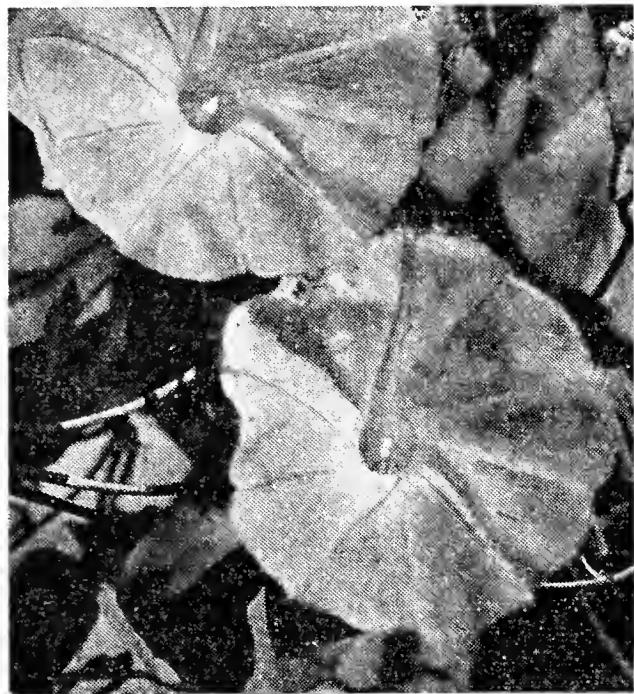
Fine for covering a trellis or back fence. They grow quickly 15 feet or more. Soak the seed 6 hours, then plant in April and May.

**SCARLETT O'HARA.** See inside of back cover for description and prices.

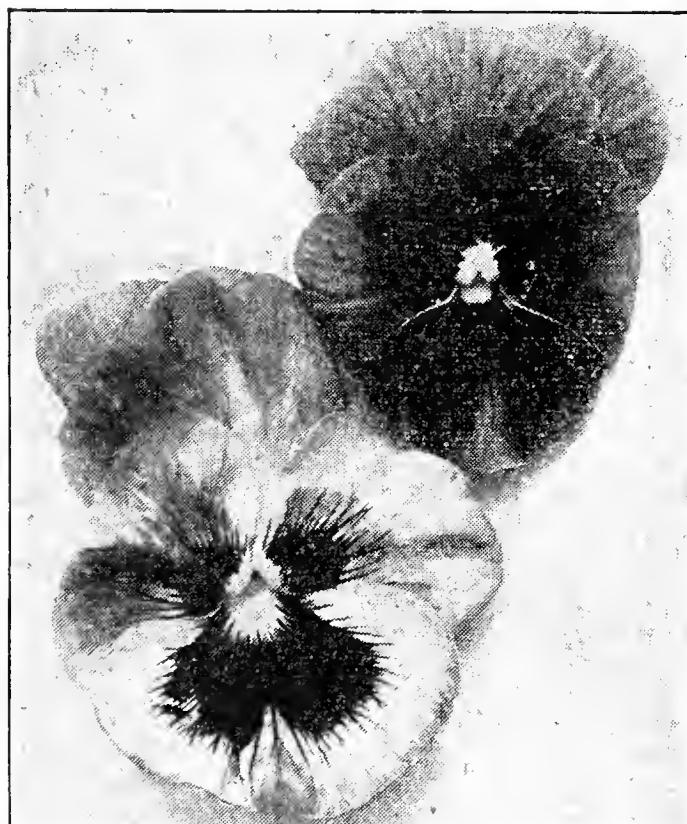
**CLARK'S BLUE.** An exceptionally fine very early, tall growing variety; produces a mass of large beautiful light blue flowers  $2\frac{1}{2}$  to 4 inches across. A continuous bloomer. You will be delighted with this splendid Morning Glory. Pkt., 10c;  $\frac{1}{4}$  oz., 20c;  $\frac{1}{2}$  oz., 35c; oz., 60c.

**JAPANESE MIXED.** Of vigorous growth, flowers fringed, very large, in all beautiful shades. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c.

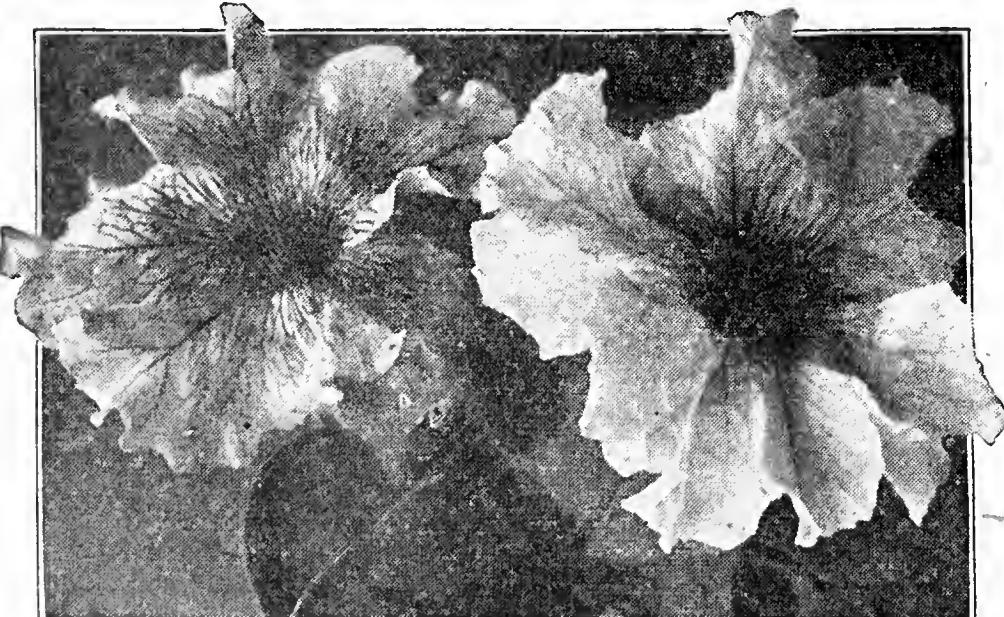
**CHOICE MIXED.** Flowers bell-shaped, in many colors. Pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 15c.



Morning Glory, Clark's Blue



Pansies



General Dodds

Celestial Rose

## Moonflower

Splendid rapid-growing climbers with large brilliantly colored blooms. Seed should be filed or cut, then soaked in warm water to get good germination. Moonflowers grow to a height of 20 to 30 feet in a season. Hardy annual. Plant when ground is warm.

**WHITE.** Flowers large, pure white, and bloom evenings; of vigorous growth. Pkt., 10c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 45c.

**HEAVENLY BLUE.** Flowers large, sky-blue with white throat. Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 40c; oz., 75c.

## Nasturtiums

These succeed best in poor gravelly soil. Plant early in March, thin to 6 inches apart. Half-hardy annual.

The new semi-double sweet-scented varieties have been the sensation of the flower world in the past few years.

**DOUBLE GOLDEN GLEAM.** Semi-trailing, golden yellow colored, very fragrant. Pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 50c; lb., \$1.25.

**DOUBLE SCARLET GLEAM.** Double, sweet scented fiery orange-scarlet. Plant semi-trailing. Pkt., 5c;  $\frac{1}{2}$  oz., 10c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 45c; 1 lb., \$1.15.

**DOUBLE GLORIOUS GLEAM HYBRIDS.** Semi-tall. A mixture of many gorgeous flowers on long stems, sweet scented. Pkt., 5c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 35c; 1 lb., \$1.00.

**DWARF MIXED.** All dwarf varieties in a fine combination of colors, fine for borders or beds. Pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 25c; 1 lb., 80c.

**TALL MIXED.** Excellent for trellises or hanging baskets, etc. Pkt., 5c; oz., 10c; 2 ozs., 15c;  $\frac{1}{4}$  lb., 25c; 1 lb., 75c.

## Nicotiana

Annual, 2 feet in height. Flowers the first season, adapted to almost any situation.

**MIXED COLORS.** Pkt., 5c;  $\frac{1}{4}$  oz., 25c.

## Pansies

Sow seed indoors very early in spring or outdoors later in the open ground. Transplant when an inch high. Early spring plants will give you fine blooms. Tender perennials, 6 inches high.

**ALL-AMERICA PANSY.** A glorious combination, the blossoms are extra size, waved and frilled, with beautiful markings, in a wonderful range of colors. Pkt., 10c;  $\frac{1}{16}$  oz., \$1.50;  $\frac{1}{4}$  oz., \$2.50;  $\frac{1}{2}$  oz., \$3.00; 1 oz., \$5.00.

**ROGGLI, SWISS GIANT.** New hybrids that have created quite a sensation among pansy growers. Blooms measure 2 to 3 inches across. Mixed colors. Pkt., 15c;  $\frac{1}{16}$  oz., 75c;  $\frac{1}{8}$  oz., \$1.25;  $\frac{1}{4}$  oz., \$2.00;  $\frac{1}{2}$  oz., \$3.00.

**GIANT FLOWERING.** A grand mixture of fine large-flowering varieties, producing showy blooms. Pkt., 10c;  $\frac{1}{16}$  oz., 50c;  $\frac{1}{8}$  oz., 75c;  $\frac{1}{4}$  oz., \$1.25;  $\frac{1}{2}$  oz., \$2.00.

**CHOICE MIXED.** Valuable for bedding. Contains many fine colors in mixture. Pkt., 5c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 60c; 1 oz., \$1.00.

## SWISS GIANT PANSIES IN SEPARATE COLORS

**Berna.** Dark blue.

**Cardinal-Red.**

**Golden Dream.**

**Silver Bride.** White, dark eye.

Price above 4 varieties: each pkt., 10c;  $\frac{1}{16}$  oz., 50c;  $\frac{1}{8}$  oz., 75c;  $\frac{1}{4}$  oz., \$1.25;  $\frac{1}{2}$  oz., \$2.25.

## Petunias

There is no flower more highly prized for use in beds, massing, borders, window boxes, baskets and vases; easily grown, as they succeed in almost any soil and produce fragrant blossoms no matter how hot it gets the entire season. Sow thinly in March or April and do not cover seed very deep. Sow on top of soil and merely press them in with the back of the hoe or spade. Water after seedlings come up.

### Petunia Hybrida

These grow 1 $\frac{1}{2}$  feet tall and form bushy plants.

**BLUE BEE.** Deep velvet-violet-blue. Pkt., 10c;  $\frac{1}{8}$  oz., 30c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00.

**BURGUNDY.** Wine-red with showy white throat, very showy. Pkt., 15c;  $\frac{1}{64}$  oz., \$1.00;  $\frac{1}{32}$  oz., \$1.50.

**FLAMING VELVET.** Velvety rich blood-red, semi-dwarf, very beautiful. Pkt., 10c;  $\frac{1}{8}$  oz., 75c;  $\frac{1}{4}$  oz., \$1.25;  $\frac{1}{2}$  oz., \$2.00.

**GENERAL DODDS.** Single, large oxblood-red blooms. Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 40c;  $\frac{1}{2}$  oz., 75c.

**PURE WHITE.** A beautiful snow-white flower; distinct, very showy. Pkt., 10c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.00.

**VIOLET-PURPLE.** A mid-blue color; blooms large and of a lovely form. Pkt., 10c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**GIANT FLOWERING MIXED.** Hybrid type with very large single bold flowers in a wide range of colors that attract attention all summer. Pkt., 10c;  $\frac{1}{8}$  oz., 40c;  $\frac{1}{4}$  oz., 60c;  $\frac{1}{2}$  oz., \$1.00; oz., \$1.50.

**CHOICE MIXED.** Fine for bedding, gives a mass of beautiful single flowers. Pkt., 5c;  $\frac{1}{8}$  oz., 20c;  $\frac{1}{4}$  oz., 35c;  $\frac{1}{2}$  oz., 50c; oz., 75c.

### Large Flowering Petunias

**PURPLE BEAUTY.** A large flower, beautifully fringed or frilled; of a rich royal purple. Pkt., 100 seeds, 25c;  $\frac{1}{16}$  oz., \$4.00.

**GIANTS OF CALIFORNIA.** Ruffled, single flowers of large size in a beautiful range of colors. Pkt., 100 seeds, 25c;  $\frac{1}{16}$  oz., \$4.00.

**DOUBLE LARGE FLOWERING.** A mixture of double varieties of marvelous beauty. Height 14 inches. Pkt., 100 seeds, 25c.

### Petunia, Balcony

Single, large flowering type. Especially adapted for porch boxes, baskets and urns.

**BALCONY BLUE.** Rich violet-blue.

**BALCONY RED.** Showy bright crimson.

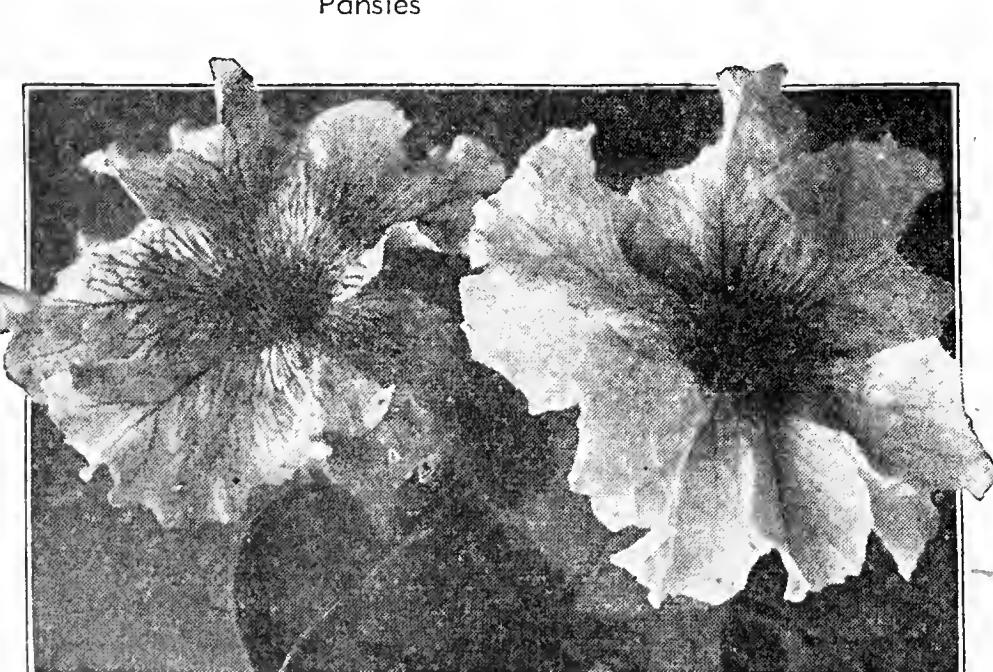
**BALCONY ROSE.** Clear rose-pink.

**BALCONY WHITE.** Beautiful clear white.

**BALCONY MIXED.** All colors in mixture. Prices above five varieties Balcony Petunias: Pkt., 15c; 2 pkts., 25c;  $\frac{1}{16}$  oz., 75c.



Phlox Drummondii



General Dodds

Celestial Rose

## Petunia Nana Compacta

These grow erect and bushy, 10 to 12 inches high. Desirable for beds; single flowers.

**BLUE BEDDER.** Rich royal blue, a beautiful attractive shade. Pkt., 10c; 1/16 oz., 40c; 1/8 oz., 60c; 1/4 oz., \$1.00.

**CELESTIAL ROSE.** Beautiful deep solid bright pink color. Pkt., 10c; 1/16 oz., 40c; 1/8 oz., 75c; 1/4 oz., \$1.25.

**ROSE OF HEAVEN.** Brilliant rose-pink, a slightly darker shade than Rosy Morn. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 60c; 1/2 oz., \$1.00.

**ROSY MORN.** Height 12 inches. Clear pink with a broad white throat. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 75c; 1/2 oz., \$1.25.

**SNOWBALL.** Compact, bushy plants with snow-white flowers. Pkt., 10c; 1/16 oz., 30c; 1/8 oz., 40c; 1/4 oz., 70c.

**MIXED COMPACTA.** All shades and colors of the Dwarf Petunias in mixture. Pkt., 10c; 1/16 oz., 25c; 1/8 oz., 40c; 1/4 oz., 60c; 1/2 oz., \$1.00.

## Phlox Drummondii

This is one of the prettiest annuals, of easy culture and should be in every garden. Remarkable for its blooming qualities. Plant is vigorous and blooms all summer. The rich and beautiful colors produce an elegant effect in beds or borders.

**GIGANTEA ART SHADES.** In addition to its enormous flowers it has a most wonderful range of soft colors blended together, making a most beautiful mixture and color combination never before seen in Annual Phlox. Pkt., 10c; 1/16 oz., 35c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.00; oz., \$1.50.

**MAMMOTH FLOWERING.** Splendid large flowers in a beautiful mixture. Height 15 inches. Pkt., 10c; 1/8 oz., 30c; 1/4 oz., 45c; 1/2 oz., 75c; oz., \$1.25.

**CHOICE MIXED.** Annual varieties, mixed colors. Pkt., 5c; 1/8 oz., 25c; 1/4 oz., 40c; 1/2 oz., 75c.

**FIREBALL.** Flowers large, blood-red. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c.

**ROSEA.** Bright pink. Very beautiful. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 60c.

**SNOWBALL.** Large, clear snow-white. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c.

## Dwarf Phlox

### (Nana Compacta)

Very dwarf growth, fine for edging borders or beds. Annual, 8 inches in height.

**MIXED COLORS.** Pkt., 10c; 1/16 oz., 30c; 1/8 oz., 40c; 1/4 oz., 70c.

## Perennial Phlox

**MIXED COLORS.** Pkt., 10c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25.

## Pinks (Dianthus)

These are hardy and half-hardy perennials and biennials, but nearly all bloom the first season from seed. Sow in April and May, thin to 6 inches.

**CHINA DOUBLE.** Popular Indian-pink double flowers in mixed colors. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 35c; oz., 50c.

**DIADEM DOUBLE.** Diadematus double, mixed colors. Pkt., 5c; 1/4 oz., 25c; 1/2 oz., 40c; oz., 70c.

**CLOVE PINK** (Dianthus plumarius). Free blooming, has spicy odor, mixed colors. Pkt., 10c; 1/4 oz., 30c; 1/2 oz., 50c; oz., 90c.

**SWEET WIVELSFIELD.** Blooms the first season from seed if planted early. Mixed colors. Pkt., 10c; 1/8 oz., 20c; 1/4 oz., 35c; 1/2 oz., 60c; oz., \$1.00.

## Portulaca

Also known as Rose Moss. Annual. Six inches in height. Thrives in open places and will stand the hottest weather. Suitable for borders or edging. They bloom until frost. Sow in March or April.

**SINGLE MIXED.** All colors. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 35c; oz., 60c.

**DOUBLE MIXED.** Brilliant colors. Pkt., 10c; 1/4 oz., 60c; 1/2 oz., \$1.00; oz., \$1.50.

## Poppies

Sow them early, since they stand frost. February is none too soon. Sow them where they are to bloom as they will not admit transplanting. Successive sowings should be made to have a continuous bloom. Mix seed with ashes or sand so as to separate well, then thin to 6 inches. Hardy annual. 18 to 20 inches high.

### CARNATION-FLOWERED.

Large flowering with fringed petals and many stripes; double. Mixed colors. Pkt., 5c; 1/2 oz., 20c; oz., 30c.

### PEONY-FLOWERED.

Double ball-shaped flowers with plain edges, mixed colors. Pkt., 5c; 1/2 oz., 20c; oz., 30c.

### SALMON ROSE.

Large fringed flowers, measuring 5 inches across, ranging from brilliant rose to salmon-rose with very large white center. Double flowers. Pkt., 10c; 1/4 oz., 20c; 1/2 oz., 35c; oz., 50c.

**SHIRLEY.** These have beautiful satiny flowers of various colors, all with white centers. Also called the Silk or Ghost Poppy. Single mixed annual. Pkt., 5c; 1/2 oz., 25c; oz., 40c.

**DOUBLE PINK.** Salmon-pink. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 30c; oz., 50c.

**DOUBLE RED.** Rich scarlet. Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 30c; oz., 50c.

**DOUBLE FINE MIXED COLORS.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 20c; oz., 30c.

## Perennial Poppies

Sow February to July. Some will bloom the first year from seed.

**ORIENTAL MIXED.** Pkt., 10c; 1/4 oz., 30c; 1/2 oz., 45c; oz., 75c.

## Salvia or Scarlet Sage

A hardy annual that blooms the first season from seed. Well-known bedding plants with long flaming spikes of brilliant scarlet flowers. Easy to grow from seed and will thrive in any good soil and sunny situation. Blooms the whole season, beginning about August 1st. Sow seed in boxes and transplant or sow outdoors in May; thin plants to 8 inches.

**CLARA BEDMANS.** Rich brilliant scarlet. 8 inches. Pkt., 10c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25.

**SPLENDENS** (Scarlet Sage). The standard good variety, dependable. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 60c; 1/2 oz., \$1.00.

**PATENS.** Intense blue, free bloomer, 3 feet high. Pkt., 15c; 1/8 oz., 50c; 1/4 oz., 90c; 1/2 oz., \$1.50.

## Scabiosa

### (Pincushion Flower)

Growth 2 1/2 feet in height; excellent for cutting. Blooms early in July. Sow seed in March, thin plants to 8 inches. Annual.

**MIXED COLORS.** Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 35c; oz., 50c.

### IMPERIAL GIANTS, BLUE MOON.

Very double, large flowers, 2 3/4 inches across. The color is a rich, deep lavender-blue; fine for cut flowers. Pkt., 25c; 1/64 oz., 50c; 1/32 oz., 80c; 1/8 oz., \$1.20.

## Scarlet Runner Vine

Ornamental and useful climbing bean. Will climb 20 to 25 feet in a season; has scarlet blooms. Sow in April, 6 inches apart, 3 inches deep. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 70c.

## Sunflower

Showy, easily grown annual flowers, mostly yellow. Plant in April and May, 2 to 3 feet apart.

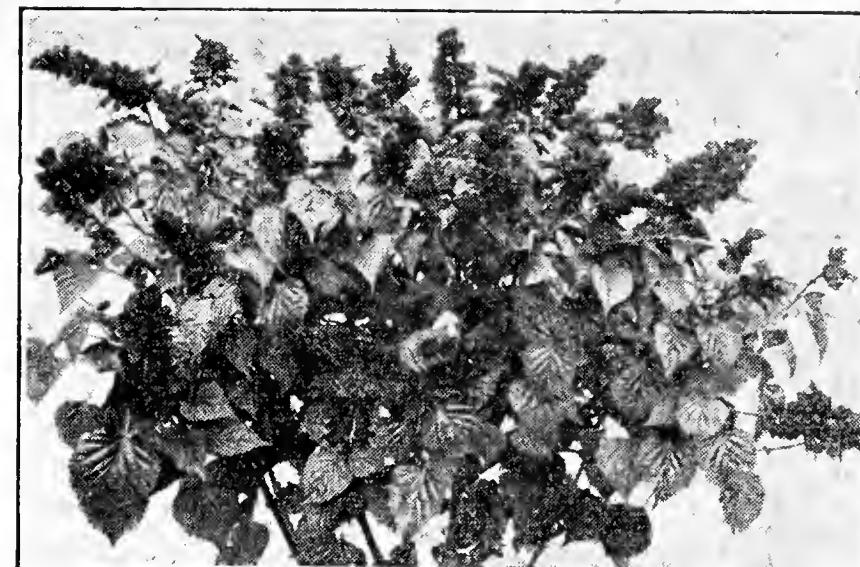
**DOUBLE DWARF.** 4 feet. Orange-yellow. Flowers large and double.

**GLOBE OF GOLD.** 6 feet. Free blooming, double globe or dahlia-like saffron flowers.

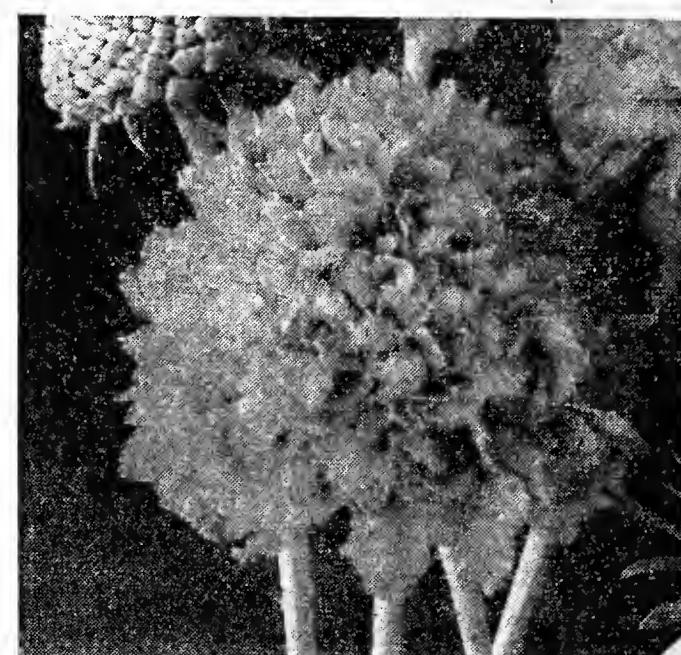
Above two varieties: Pkt., 5c; 1/2 oz., 15c; oz., 25c; 1/4 lb., 60c.

### SPECIAL OFFER on 5c Pkt. Flower Seeds

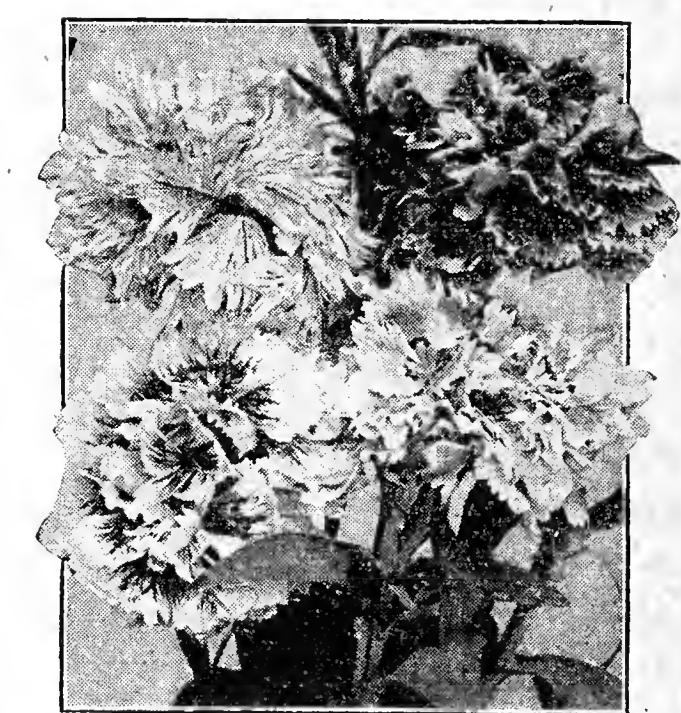
For \$0.25 select any 7 — 5c pkts.  
For .50 select any 15 — 5c pkts.  
For 1.00 select any 35 — 5c pkts.



Salvia or Scarlet Sage



Blue Moon Scabiosa



Double Pinks

## Statice

An easily grown annual. They prefer an open situation. Sow in March or April, transplant 12 inches apart. Height 3 feet. Statice is not only good for borders but makes an excellent everlasting flower for making winter bouquets.

**MIXED COLORS.** Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

**SEPARATE COLORS.** Yellow, blue, rose. Price of 3 varieties of separate color Statice:

Pkt., 10c; 1/4 oz., 20c; 1/2 oz., 30c; oz., 50c.

## Stocks

Half-hardy annual; better known as Gilly Flower. Sow seed indoors and transplant in April and May in a cool situation. Stocks are good for bedding, borders, pot culture or bouquets, and will come about 60 per cent double from seed.

**DOUBLE PERFECTION.** Extra large, exceedingly handsome, 18 inches, flowers very double with long spikes; very fragrant. Mixed colors. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 60c; 1/2 oz., \$1.00; 1 oz., \$1.50.

# R.-H. Co.'s Sweet Peas

The ground should be worked or dug to a depth of 6 inches to 1 foot, then leave a hollow 3 inches deep for a seed bed. Cover seed 2 inches deep. After plants appear, work soil to them and apply a little Nitrate of Soda, 6 inches from the plant. Sow in January and February. Four ounces will plant a row 40 feet in length.

## R. H. Co.'s Superb Giant Mixed Spencers

Our own selection of the finest varieties and colors. The different sorts in this mixture are raised separately and our grower mixes and blends them to get the best effects. This mixture embraces the finest Spencers, including many novelties, and will produce a great abundance of Giant flowers in many beautiful colors. Pkt., 5c; oz., 15c; 2 ozs., 25c; 1/4 lb., 40c; 1/2 lb., 70c; 1 lb., \$1.35, postpaid.

**Giant Ruffled Spencer.** A beautiful class. The flowers are distinct, extra ruffled and waved. Mixed, all colors. Pkt., 10c; oz., 20c; 2 ozs., 35c; 1/4 lb., 60c; 1/2 lb., 90c; 1 lb., \$1.50, postpaid.

## Named Giant Spencers

Price: Any of the following varieties: Postpaid, pkt., 10c; 4 pkts., 30c; 1 oz., 20c; 2 ozs., 35c; 1/4 lb., 60c; 1/2 lb., \$1.00; 1 lb., \$1.70.

**Amethyst.** Large, clear blue.

**Chieftain.** Satiny mauve.

**Ecstasy.** Shiny blush-pink.

**Mary Pickford.** Salmon-pink.

**Master Cream.** Beautiful cream.

**Nobility.** Salmon-pink.

**Olympia.** Richest purple.

**Personality.** Coral on apricot.

**Pinkie.** Clear rose-pink.

**Pinnacle.** Pink on white.

**Powerscourt.** Large lavender.

**Red Boy.** Rich crimson.

**Smiles.** Shrimp-pink.

**Snowball.** Pure white.

## Inoculate Sweet Peas

If you want large blossoms and more of them, inoculate the seed before planting. Directions with package. Price, pkg., 10c, postpaid.

## Early Flowering Spencer Sweet Peas

**EARLY FLOWERING MIXED SPENCERS.** Pkt., 10c; oz., 25c; 2 ozs., 45c; 1/4 lb., 75c; 1/2 lb., \$1.40; 1 lb., \$2.50, postpaid.

### SEPARATE COLORS

Price of any of the following varieties: Pkt., 15c; oz., 45c; 2 ozs., 80c; 1/4 lb., \$1.00; 1/2 lb., \$1.85; 1 lb., \$3.50, postpaid.

**Early Flowering American Beauty.** Rich pink.

**Early Flowering Apollo.** Salmon-cerise.

**Early Flowering Daphne.** Soft salmon-pink.

**Early Flowering Mariner.** Marine-blue.

**Early Flowering Memory.** Rosy lavender.

**Early Flowering Queen Crimson.** Rich crimson.

**Early Flowering Shirley Temple.** Ruffled pink.

**Early Flowering White Harmony.** Clear white.

## Eckford's Large Flowering Grandiflora Sweet Peas

The blossoms are not as large as Spencers but they bloom better and longer; very fragrant. Pkt., 5c; oz., 10c; 2 ozs., 15c; 1/4 lb., 25c; 1/2 lb., 45c; 1 lb., 75c, postpaid.

## Perennial or Everlasting Sweet Peas

Soak seed overnight. Plant 3 inches deep in February or March. These bloom pretty near the whole season.

**MIXED PINK AND WHITE.** Pkt., 10c; 1/2 oz., 25c; oz., 45c; 2 ozs., 75c, postpaid.

## Spencer Sweet Pea Collection

Ten 10-cent packets—each one different—our selection of Named Giant Spencer Sweet Peas. Regular value \$1.00—

Postpaid For Only 60c

## Verbenas

For beds, boxes, or borders, this annual creeping plant is indispensable. Sow seed in boxes or frame early. Transplant to the open during May when young plants have 3 or 4 heads, or you can sow seed in open ground about April 10th to 15th. Germination will be hastened if seed is soaked in warm water several hours before planting. Cover seed one-half inch.

**BEAUTY OF OXFORD.** These new hybrids show colors from rose-pink to rose-red and have bright attractive blooms of large clusters an inch or more in diameter. Pkt., 10c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25.

**LAVENDER GLORY.** A true lavender with small creamy white eye, fragrant. Pkt., 10c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25.

**FLORADALE BEAUTY.** Of exceptional brightness, flowers vary from bright rose-pink to deep rose-red. Pkt., 15c; 1/16 oz., 50c; 1/8 oz., 90c.

**SALMON-PINK.** Giant flowering, true salmon-pink with white eye. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c; 1/2 oz., 75c.

**SPECTRUM RED.** Bright red without an eye; florets about 1 inch in diameter—a gorgeous color. Pkt., 10c; 1/8 oz., 60c; 1/4 oz., \$1.00; oz., \$1.50.

**GRANDIFLORA VERBENAS.** To color. Mammoth Pink, Mammoth Crimson, Mammoth Purple, and Mammoth White. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c; 1/2 oz., 75c.

**MAMMOTH FLOWERING MIXED.** This is the grandiflora mammoth flowering type containing all the large or giant-flowering varieties in mixture. Pkt., 10c; 1/4 oz., 50c; 1/2 oz., 75c; oz., \$1.25.

**CHOICE MIXED.** Hybrid type, very free blooming. Mixed, all colors. Pkt., 5c; 1/4 oz., 35c; 1/2 oz., 50c; oz., 80c.

## Sweet William

Hardy biennial. 18 inches. These favorite garden flowers are showy and have a long blooming period. They grow readily from seed and will flower the first season when sown early in boxes or beds and transplanted. They thrive in any soil or situation.

**SINGLE MIXED.** Pkt., 5c; 1/4 oz., 20c; 1/2 oz., 40c; oz., 70c.

**DOUBLE MIXED.** Pkt., 10c; 1/4 oz., 30c; 1/2 oz., 45c; oz., 70c.

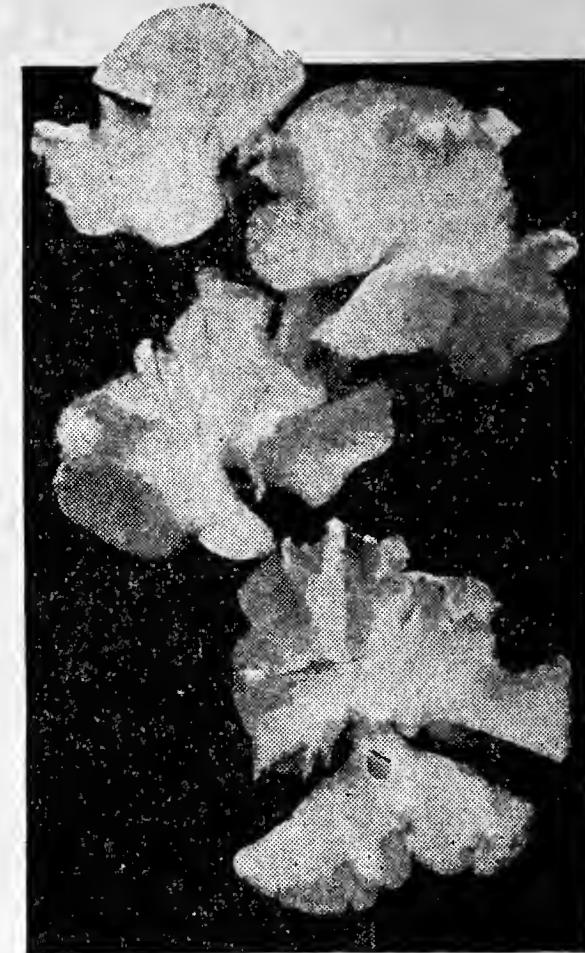
**NEWPORT PINK.** Large, solid pink. Pkt., 10c; 1/8 oz., 25c; 1/4 oz., 35c; 1/2 oz., 50c; oz., 85c.

## Texas Blue Bonnet

Hardy annual. Sow in March and April. Fine for cutting; flowers charming blue. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 35c.



Verbena, Beauty of Oxford



Giant Mixed Spencers

## Thunbergia

Tender annual. Plant in April. Fine for hanging baskets or trellis work. Flowers yellow-buff with a black center. Pkt., 10c; 1/8 oz., 20c; 1/4 oz., 30c; 1/2 oz., 40c; oz., 70c.

## Tithonia

Early flowering. Splendid for background or clumps. Commonly known as Mexican Sunflower. Height 8 feet. Sow in April or May, thin to 3 feet. Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 60c; 1/2 oz., \$1.00.

**FIREBALL.** Dazzling scarlet with yellow center. Flowers 4 1/2 to 5 inches across. Pkt., 15c; 1/32 oz., 60c; 1/16 oz., \$1.00.

## Vinca

Ornamental free-blooming plants with dark green foliage and pink and white flowers. Sow seed in boxes in March and transplant to the open in May. Height 12 inches.

**ALBA.** Snow-white. Pkt., 10c; 1/8 oz., 25c; 1/4 oz., 40c; 1/2 oz., 60c; oz., \$1.00.

**ROSEA.** Soft pink. Pkt., 10c; 1/8 oz., 25c; 1/4 oz., 40c; 1/2 oz., 60c; oz., \$1.00.

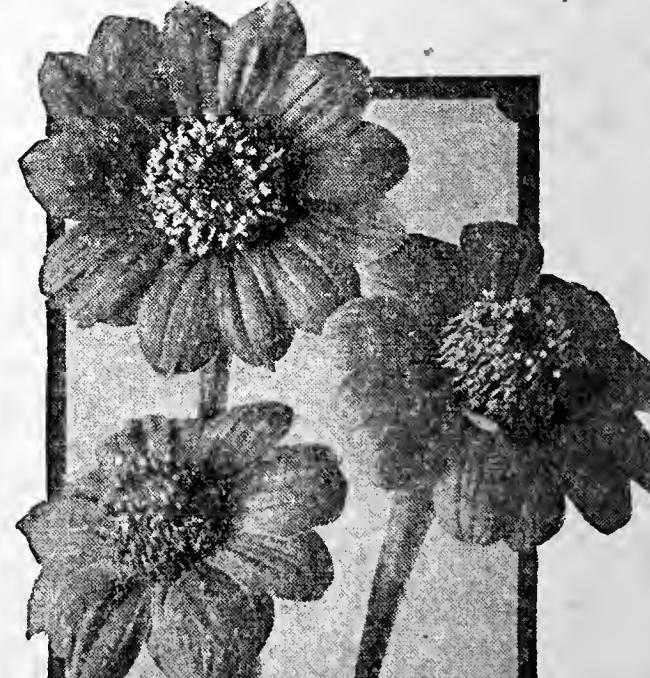
**MIXED.** Pink, pink-eye, and white. Pkt., 10c; 1/8 oz., 20c; 1/4 oz., 35c; 1/2 oz., 50c; oz., 75c.

## Wallflower

Favorite sweet-scented flower; useful as spring bedder, flowering the first season from seed. Half-hardy perennial. 1 1/2 feet in height. Single mixed. Pkt., 5c; 1/4 oz., 15c; 1/2 oz., 25c; oz., 40c.

## Wild Cucumber Vine

Soak seed in warm water 2 hours before planting. This is one of the finest annual vines, splendid for covering fences, porches, etc. Pkt., 5c; 1/4 oz., 10c; 1/2 oz., 15c; oz., 25c.



Tithonia, Fireball

# Russell-Heckle's Zinnias

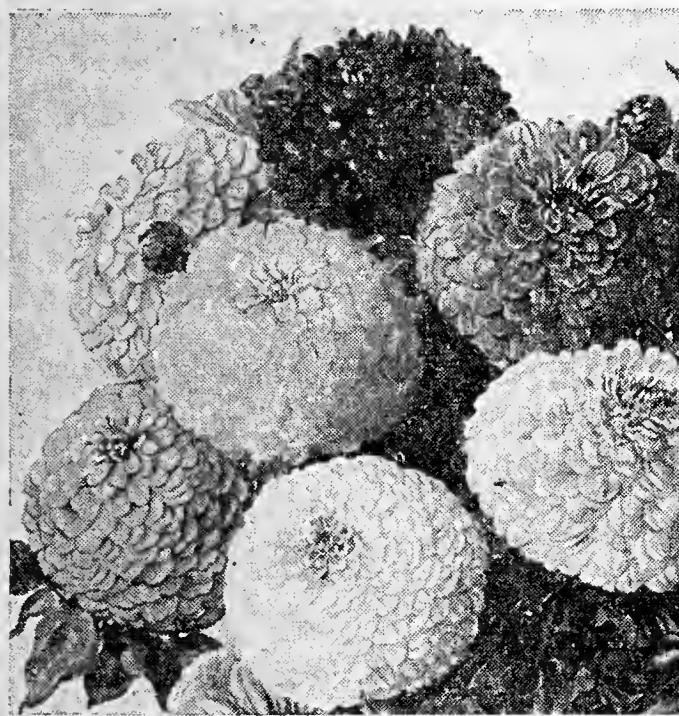
Most gorgeous and beautiful annuals in a wide range of color. Sow seed after danger of frost is over in well-fertilized beds and keep plants well watered. Thin plants to 12 to 15 inches in the row and have rows wide enough to work, or they can be used for massing. The dwarf varieties make excellent borders or beds. Grow them in a sunny location. Do not endeavor to have good Zinnias and plant near large trees. If you sow only one annual flower, let it be Zinnia. Late sowings can be made up to July 15 and they will produce most beautiful blossoms.

## California Giant Zinnias

This is a colossal Giant type with huge flowers, immense, broad, nearly flat flowers in a gorgeous assortment of colors. Splendid for cutting or garden effect. Plants grow 3 to 4 feet in height.

**Brightness.** Bright pink.  
**Crimson Queen.** Rich crimson.  
**Enchantress.** Rose-pink.  
**Grenadier.** Deep red.  
**Golden Queen.** Golden yellow.  
**Lavender Gem.** Clear lavender.  
**Orange Queen.** Clear orange.  
**Purity.** Newest white.  
**Rose Queen.** Bright rose.  
**Violet Queen.** Deep purple.  
**Salmon Gem.** Salmon-rose.

Price, above 11 California Giant Zinnias: Pkt., 10c; 4 pkts., 30c; 7 pkts., 50c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; oz., 80c, postpaid.



California Giant Mixed Zinnias

**CALIFORNIA GIANT MIXED ZINNIAS.** Pkt., 10c; 4 pkts., 30c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 45c; oz., 70c, postpaid.

## Dahlia-Flowered Zinnia

A beautiful variety, very large and as graceful in appearance as the decorative Dahlia. Flowers often measure 5 to 6 inches in diameter and are produced in magnificent colors. Height of plants 3 feet. Our seeds are from the originators.

**Canary Bird.** Canary-yellow.  
**Crimson Monarch.** Deep crimson.  
**Eldorado.** Salmon-apricot.  
**Exquisite.** Light rose.  
**Golden State.** Yellow-orange.  
**Illumination.** Deep rose.  
**Luminosa.** Bright pink.  
**Meteor.** Rich deep red.  
**Old Rose.** Old rose shades.  
**Polar Bear.** Creamy white.  
**Purple Prince.** Deep purple.  
**Scarlet Flame.** Bright scarlet.

Price, above 12 Dahlia-Flowered Zinnias: Pkt., 10c; 4 pkts., 30c; 7 pkts., 50c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; 1 oz., 80c, postpaid.

**DAHLIA-FLOWERED FINEST MIXED ZINNIAS.** Pkt., 10c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 45c; oz., 70c, postpaid.

## Pastel Mixture Lilliput Zinnias

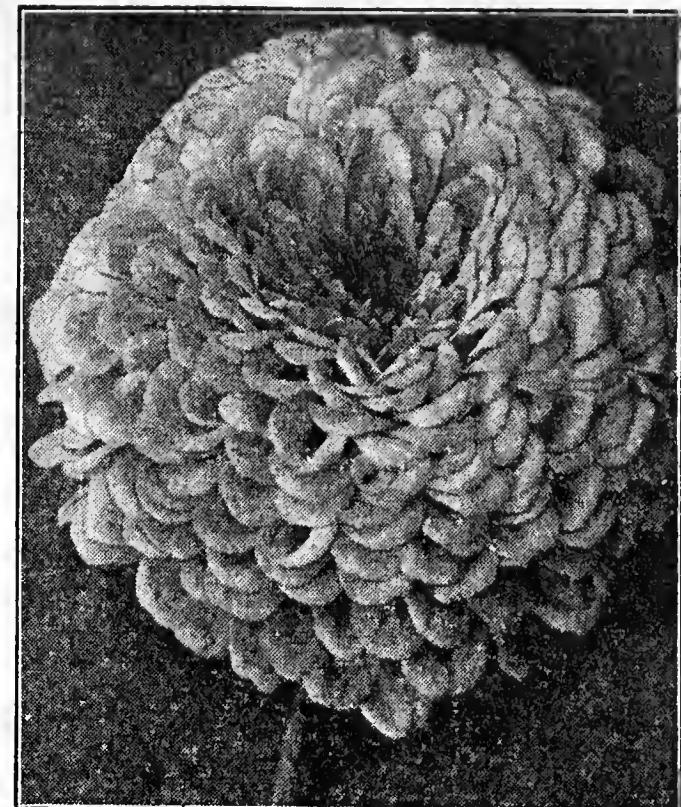
A glorious combination of Pompon Zinnias in all the pastel shades, particularly fine for cutting or bouquets. Pkt., 10c;  $\frac{1}{8}$  oz., 25c;  $\frac{1}{4}$  oz., 35c;  $\frac{1}{2}$  oz., 50c; 1 oz., 75c, postpaid.

**TOM THUMB LILLIPUT ZINNIA.** Very compact and dwarf, 6 to 8 inches high, covered with well-formed flowers in all colors. Mixed varieties. Pkt., 10c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; 1 oz., 90c.

## Dwarf Lilliput or Pompon Zinnias

Pretty compact type producing small double flowers. Make a good line or border. Also excellent cut flower. Annual. Height 15 inches. Pkt., 10c; 4 pkts., 30c;  $\frac{1}{4}$  oz., 25c;  $\frac{1}{2}$  oz., 45c; oz., 75c.

**Golden Gem.** Yellow.  
**Purple Gem.** Purple.  
**Rose Bud.** Rose-pink.  
**Pink Gem.** Pink.  
**Scarlet Gem.** Scarlet.  
**White Gem.** White



Dahlia-Flowered Zinnia

### SPECIAL OFFER

One packet each 5 Fantasy Zinnias, only 50c, postpaid.

## Zinnia Collection

Sent postpaid for only 60c.  
One 10c pkt. each variety.

**California Giant, Brightness**  
**California Giant, Orange Queen**  
**Dahlia-Flowered, Exquisite**  
**Dahlia-Flowered, Meteor**  
**Pumila Picotee, Salmon-Rose**  
**Lilliput, New Rose Bud**  
**Scabiosa-Flowered Mixed**  
**Fantasy Mixed**  
**Gaillardia-Flowered Mixed**  
**Lilliput, Pastel Mixture**

## New and Novelty Zinnias

### Cupid Zinnia

These are very dwarf, 12 inches in height. They form compact well-formed plants and the flowers are small, buttonlike, mixed colors. Pkt., 10c;  $\frac{1}{16}$  oz., 40c;  $\frac{1}{8}$  oz., 60c;  $\frac{1}{4}$  oz., \$1.00.

### Scabiosa-Flowered Zinnia

Resemble the annual Scabiosa. Plants 2 1/2 feet in height and the medium size blooms are produced in great profusion. Pkt., 10c;  $\frac{1}{16}$  oz., 40c;  $\frac{1}{8}$  oz., 60c;  $\frac{1}{4}$  oz., \$1.00.

### Super Crown O' Gold Zinnia

The pastel tints of this unique variety are a beautiful sight. The new shades are a great improvement and the flowers are much larger and of better form than the ordinary strain. All colors mixed. Pkt., 15c;  $\frac{1}{32}$  oz., 40c;  $\frac{1}{16}$  oz., 60c;  $\frac{1}{8}$  oz., \$1.00.

### Gaillardia-Flowered Zinnia

**MIXED COLORS.** Pkt., 10c;  $\frac{1}{16}$  oz., 25c;  $\frac{1}{8}$  oz., 30c;  $\frac{1}{4}$  oz., 50c.

### Fantasy Zinnias

These have twisted, curled and quilled petals. The blooms are large and full.

They are something so different that you will be more than delighted with the Fantasy class of Zinnia.

**ORANGE LADY.** Deep bright orange. Pkt., 15c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**ROSALIE.** Rich intense rose. Pkt., 15c;  $\frac{1}{16}$  oz., 35c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**WHITE LIGHT.** Nearly pure white. Pkt., 15c;  $\frac{1}{16}$  oz., 35c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**STAR DUST.** Rich yellow. Pkt., 15c;  $\frac{1}{16}$  oz., 35c;  $\frac{1}{8}$  oz., 50c;  $\frac{1}{4}$  oz., 75c;  $\frac{1}{2}$  oz., \$1.25.

**MIXED.** A colorful combination of all Fantasy Zinnias. Pkt., 10c;  $\frac{1}{16}$  oz., 25c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

## Standard Good Zinnias

**EARLY WONDER.** A new race of dwarf early flowering Zinnias. Color fiery salmon-cerise-pink. Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**MEXICAN DWARF HYBRID.** Excellent for bold arrangement, free flowering, 12 to 18 inches in height. Double mixed colors. Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**RED RIDING HOOD.** Deep scarlet, miniature red flowers, plants 12 to 18 inches in height. Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**PUMILA PICOTEE DELIGHT.** Salmon-rose, petals curled with picotee markings. Plants 2 feet high. Pkt., 10c;  $\frac{1}{8}$  oz., 35c;  $\frac{1}{4}$  oz., 50c;  $\frac{1}{2}$  oz., 75c.

**CURLED AND CRESTED.** Flower petals are artistically tinted, curled, and crested. Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 30c;  $\frac{1}{2}$  oz., 50c; oz., 75c.

**TALL DOUBLE.** Fine for beds, groups or cut flowers. Height 2 feet. Mixed colors. Pkt., 5c;  $\frac{1}{4}$  oz., 15c;  $\frac{1}{2}$  oz., 25c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.00.

## Mixtures of Flower Seeds

The following mixtures are specially prepared to meet your special needs. They adapt themselves to every garden. Sow them anywhere; they will fill in places which otherwise would grow up in weeds. You will be delighted with the many varieties and many colors these mixtures will give. Sow all in March, covering one-half inch and mix the seed with sand or ashes to separate seed when sowing.

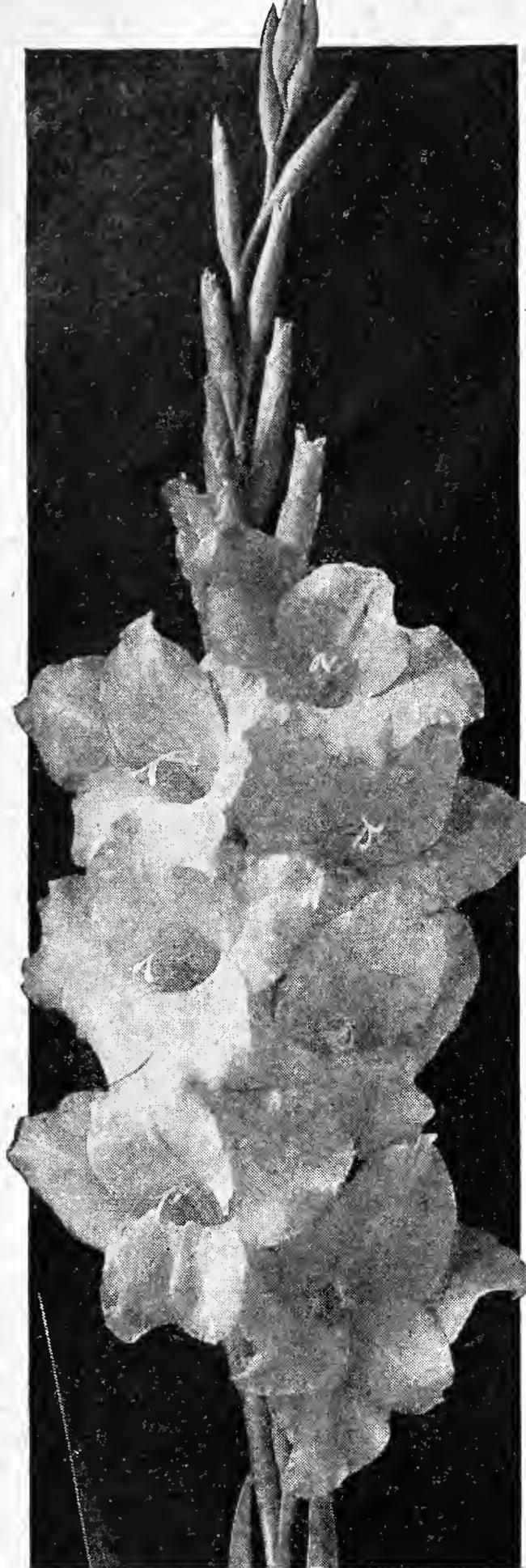
**CUT FLOWER MIXTURE.** This is a mixture of all varieties that are best adapted for cut flowers in a wide range of colors. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**EVERLASTING FLOWER MIXTURE.** An assortment of all the everlasting flowers in a splendid mixture. You will find this novel and very interesting. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c;  $\frac{1}{4}$  lb., 60c; 1 lb., \$2.00, postpaid.

**CALIFORNIA NATIVE FLOWERS.** This mixture is quite distinct, since it contains all the native varieties of annual flowers in mixture that are grown in California. They do equally as well in the South. Pkt., 5c;  $\frac{1}{2}$  oz., 15c; oz., 25c;  $\frac{1}{4}$  lb., 75c; 1 lb., \$2.25, postpaid.

**WILD FLOWER GARDEN MIXTURE.** A haphazard mixture—not a tame garden of wild flowers but a wild garden of tame flowers. Contains all the annual varieties that will give a continuous bloom all summer long. Pkt., 5c; oz., 15c; 2 ozs., 25c;  $\frac{1}{4}$  lb., 40c; 1 lb., \$1.25, postpaid.

# Top Notch GLADIOLUS BULBS



Giant Nymph

## Gladiolus Collection 10 Varieties Specially Priced

Albatross	Dr. Nelson Shook
Apricot Glow	Golden Dream
Betty Nuthall	Mrs. Francis King
Chas. Dickens	Picardy
Crimson Glow	Pfitzer's Triumph

Postpaid	
2 each of above 10 varieties	..... \$0.70
4 each of above 10 varieties	..... 1.20
10 each of above 10 varieties	..... 2.50

Plant 3 to 4 inches deep and 18 to 24 inches apart as soon as the frost is out of the ground. Cover with leaves or mulch when first planted.

All prices uniform as follows: Postpaid, 6, 40c; doz., 65c; 50, \$2.40; 100, \$4.10. Not prepaid, 6, 30c; doz., 55c; 50, \$2.20; 100, \$3.75.

**Hungaria.** 4 feet tall. Rich rosy pink blooms with green foliage.

**King Humbert.** 5 feet. Deep fiery orange-red with bronze foliage.

Plant in March, April, and up to July. Set bulbs 6 inches apart and 4 inches deep. Gladiolus are easy to grow. Insects do not bother them and you will be well repaid when you see the beautiful blooms. Our bulbs are all No. 1 size, the largest obtainable. We do not handle the small grade which seldom give satisfaction. We sell 50 at 100 rates.

## Standard Gladiolus

### For the Cutting Garden.

Prices of these 10 varieties: Postpaid, 3, 15c; doz., 40c; 100, \$2.20. Not prepaid, 3, 10c; doz., 30c; 100, \$2.00.

**Apricot Glow.** Early, warm apricot.  
**Betty Nuthall.** Late coral, orange throat.  
**Break O' Day.** Early, bright pink.  
**Crimson Glow.** Midseason, clear crimson.  
**Dr. Nelson Shook.** Midseason, rose-pink.  
**E. J. Shaylor.** Early, deep pink.  
**Golden Dream.** Late, golden yellow.  
**Gloriana.** Midseason, glorious salmon.  
**Los Angeles.** Midseason, coral-pink.  
**Mrs. Francis King.** Midseason, dazzling scarlet.

## Popular Gladiolus

Prices of these 12 varieties: Postpaid, 3, 20c; doz., 50c; 100, \$2.95. Not prepaid, 3, 15c; doz., 40c; 100, \$2.75.

**Aflame.** Midseason, orange-flame.  
**Albania.** Midseason, clear white.  
**Dr. F. E. Bennett.** Scarlet with white.  
**Giant Nymph.** Midseason, rose, cream throat.  
**Halley.** Early, salmon-pink.  
**Mrs. Frank Pendleton.** Midseason, pink blotched.  
**Mrs. P. W. Sisson.** Midseason, light pink.  
**Picardy.** Late, apricot-pink.

**Pride of Wanakah.** Midseason, lavender.

**Mrs. Leon Douglas.** Midseason, pink.

**Virginia.** Midseason, clear crimson.

**W. H. Phipps.** Late flowering, La France pink.

## Exceptional Exhibition Gladiolus

Price of the 10 varieties: Postpaid, 3, 25c; doz., 60c; 100, \$3.20. Not prepaid, 3, 20c; doz., 50c; 100, \$3.00.

**Albatross.** Midseason, snow-white.  
**Commander Koehl.** Midseason, dark red.  
**Chas. Dickens.** Early, violet-purple.  
**Dearborn.** Midseason, flesh-pink.  
**Edith Mason.** Midseason, dark red.  
**Maid of Orleans.** Early, milk-white.  
**Mildred Louise.** Midseason, strawberry pink.  
**Minuet.** Late, large, lavender.  
**Red Phipps.** Medium red shaded.  
**Veilchenblau.** Medium violet-blue.

## Extra Good Gladiolus

These 6 varieties: Postpaid, 3 for 25c; doz., 70c; 100, \$3.70. Not prepaid, 3 for 20c; doz., 60c; 100, \$3.50.

**Bagdad.** Midseason, deep rose.  
**Mrs. J. T. Knudson.** Midseason, royal purple.  
**Mrs. L. Karcher.** Salmon with orange.  
**Palm Springs.** Midseason, orange-buff.  
**Pfitzer's Triumph.** Midseason, salmon-cherry.  
**Radiance.** Midseason, opaline-pink.

## Top Notch Mixed Gladiolus

These mixtures are made up for us by our growers and contain all colors and many fine early, medium, and late varieties, to give you a long flowering season. Plant every week or two from March to July to have flowers every day.

## Exhibition Mixed

Contains all the finest Exhibition varieties. The fine large flowering and newer kinds.

Postpaid, doz., 35c; 100, \$1.95; 500, \$8.60. Not prepaid, doz., 25c; 100, \$1.75; 500, \$8.00; 1000, \$15.00.

## Good Mixed

A mixture of all standard good showy varieties, containing practically every color in Gladiolus.

Postpaid, doz., 30c; 100, \$1.45; 500, \$6.60. Not prepaid, doz., 20c; 100, \$1.25; 500, \$6.00; 1000, \$10.00.

## Primulinus

All the Prims in a beautiful assortment; contains many unique and interesting varieties of the Butterfly Gladiolus.

Postpaid, doz., 35c; 10, \$1.70; 500, \$7.60. Not prepaid, doz., 25c; 100, \$1.50; 500, \$7.00.

## Canna Bulbs

Plant 3 to 4 inches deep and 18 to 24 inches apart as soon as the frost is out of the ground. Cover with leaves or mulch when first planted.

All prices uniform as follows: Postpaid, 6, 40c; doz., 65c; 50, \$2.40; 100, \$4.10. Not prepaid, 6, 30c; doz., 55c; 50, \$2.20; 100, \$3.75.

**Hungaria.** 4 feet tall. Rich rosy pink blooms with green foliage.

**King Humbert.** 5 feet. Deep fiery orange-red with bronze foliage.

**The President.** 4 feet. Brilliant crimson flowers, bright green foliage.

**Yellow King Humbert.** 5 feet. Lemon-yellow, stippled red, foliage green.



**CULTURE DIRECTIONS FOR  
GROWING GLADIOLUS FREE  
WITH ORDERS**

# TOP NOTCH DAHLIA BULBS

Our Dahlia bulbs are all grown by specialists. All bulbs are inspected to see that they are good and sound. Each bulb is separately wrapped and labelled and guaranteed true-to-name. Dahlia bulbs cannot be shipped until early in March.

All Dahlias individually wrapped and labeled.

## Six Popular Decorative Dahlias

Postpaid, each, 20c; 6 for 70c; 12 for \$1.15. Not prepaid, each, 15c; 6 for 60c; 12 for \$1.00.

**Aida.** Very deep maroon.

**Doazon or Big Gus.** Orange-red.

**Flamingo.** Large, rich pink.

**Oregon Beauty.** Brilliant red.

**Purity.** Large, pure white.

**Yellow Colossal.** Clear yellow.

## Six Extra Good Decoratives

Postpaid, each, 25c; 6 for 90c; 12 for \$1.55. Not prepaid, each, 20c; 6 for 80c; 12 for \$1.40.

**Avalon.** Clear rich yellow.

**Charm.** Fine burnt orange.

**Jane Cowl.** Large, bronze-buff.

**Jersey's Beauty.** Clear bright pink.

**Mrs. I. de Ver Warner.** Orchid-lavender.

**Pride of California.** Bright deep crimson.

## Six Exceptional Decoratives

Postpaid, each, 35c; 6 for \$1.30; 12 for \$2.40. Not prepaid, each, 25c; 6 for \$1.20; 12 for \$2.25.

**E. T. Bedford.** Purple tinged silver.

**Monmouth Champion.** Large, flame-red.

**Kemp's Wonder.** Immense, pink and white.

**Pride of Stratford.** Large, deep orange.

**The Commodore.** Fine deep yellow.

**Ruth Vaughan.** Large deep pink.

## Free Dahlia

With any order for Dahlia bulbs amounting to \$1.00 or more, we will send you free one Delice Dahlia. A beautiful clear pink variety.

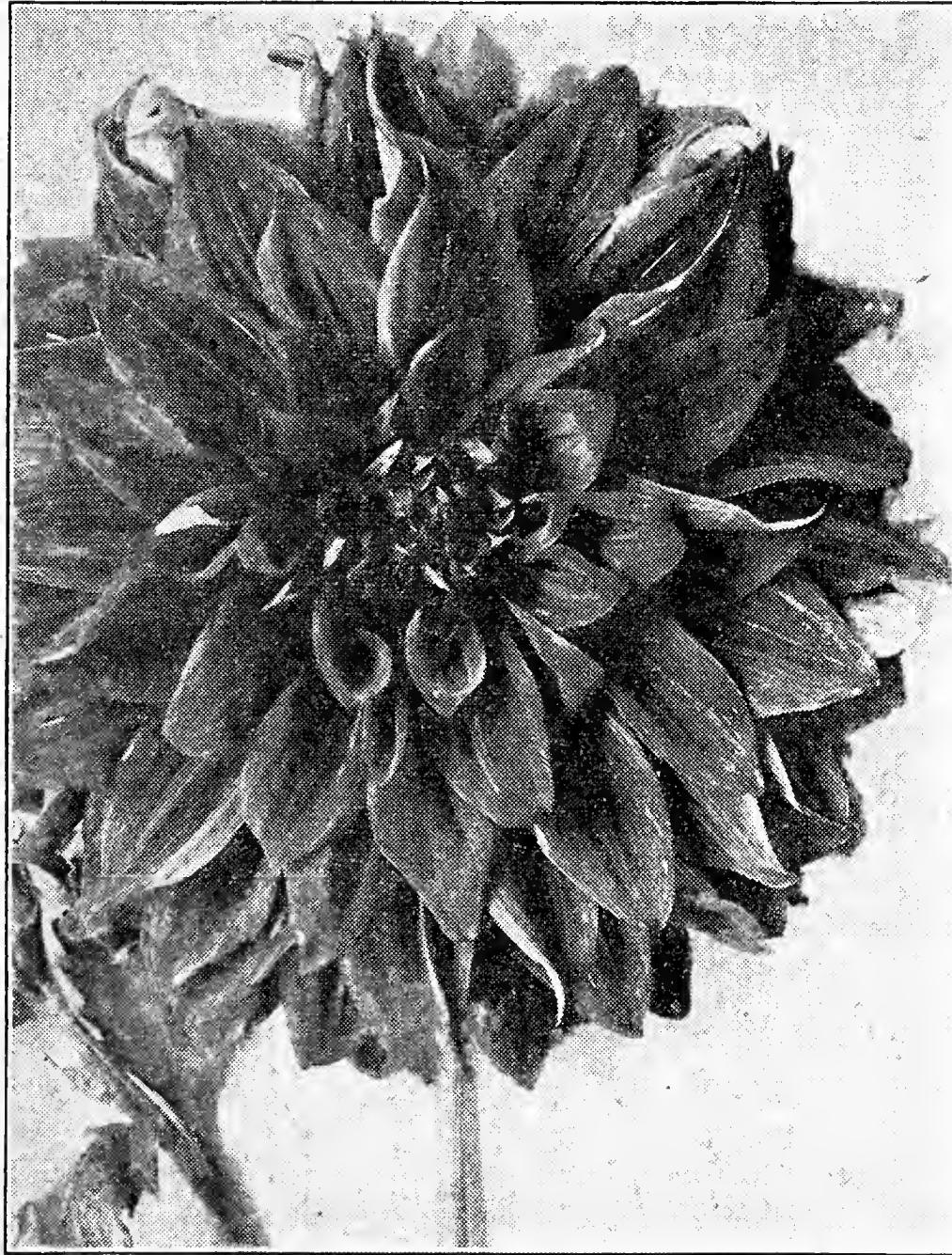
### Dahlia Collection

One each of the following six fine varieties, only 75c, postpaid.

**Aida Jersey's Beauty**  
**Avalon E. T. Bedford**  
**Charm Doazon**



Kemp's Wonder



Doazon or Big Gus Dahlia

## Amaryllis

Plant outdoors in part shade or you can plant in pots. They will bloom most anywhere.

**GIANT AMERICAN HYBRID.** Mixed colors. Postpaid, each 35c; 3 for 80c. Not prepaid, each 25c; 3 for 70c.

"How to Grow Dahlias" Free With Orders

## Lilies

Plant early in March or April, 5 inches deep in well-drained soil. Partly shaded locations are advised for most all Lilies.

**LILIUM ALBUM.** Hardy white and very fragrant. Postpaid, each, 30c; 3 for 75c; 12 for \$2.45. Not prepaid, each, 25c; 3 for 65c; 12 for \$2.25.

**LILIUM AURATUM.** White dotted crimson with golden band through each petal. Postpaid, each, 30c; 3 for 75c; 12 for \$2.45. Not prepaid, each, 25c; 3 for 65c; 12 for \$2.25.

**LILIUM RUBRUM.** White with red spots. Postpaid, each, 30c; 3 for 75c; 12 for \$2.45. Not prepaid, each, 25c; 3 for 65c; 12, \$2.25.

**LILIUM PHILIPPINENSE.** White, slightly marked reddish brown, easy to grow. Postpaid, each, 25c; 3 for 60c; 12 for \$1.70. Not prepaid, each, 20c; 3 for 50c; 12 for \$1.50.

**REGAL LILY.** Beautiful hardy Lily with large trumpet-shaped sweet-scented flowers. Ivory-white, shaded pink; yellow at base. Large bulbs, postpaid, each 30c; doz., \$2.25. Not prepaid, each 25c; doz., \$2.00.

**CORAL LILY.** Bright coral-red of easy culture. Postpaid, each, 20c; 3 for 55c; 12 for \$1.65. Not prepaid, each, 15c; 3 for 40c; 12 for \$1.50.

**TIGER LILY.** Double orange-scarlet, grows anywhere. Postpaid, each, 20c; 3 for 50c; 12 for \$1.60. Not prepaid, each, 15c; 3 for 40c; 12 for \$1.50.

Special offer, 1 each of above 7 Lilies, only \$1.35, postpaid.

## Caladium

Plant 4 inches deep, 18 inches apart, in March and April. Fertilize and water well all during the summer.

**Giant bulbs:** Postpaid, each, 35c; 3 for 85c; 12 for \$2.70. Not prepaid, each, 25c; 3 for 70c; 12 for \$2.40.

**Large bulbs:** Postpaid, each, 20c; 3 for 50c; 12 for \$1.55. Not prepaid, each, 15c; 3 for 40c; 12 for \$1.35.

**Small bulbs:** Postpaid, each, 15c; 3 for 35c; 12 for \$1.00. Not prepaid, each, 10c; 3 for 25c; 12 for 90c.

## Tuberoses

Plant in March or April, 2 inches deep and 12 inches apart. Trim roots from bulb before planting.

### DOUBLE PEARL.

**SINGLE EVERBLOOMING.** Price, either variety: Postpaid, 6 for 30c; doz., 50c; 50, \$1.65; 100, \$3.00. Not prepaid, 6 for 25c; doz., 40c; 50, \$1.50; 100, \$2.75.

## Peonies

Peony bulbs should be planted shallow so tip is just at top of the ground. Plant them in February or March 3 to 4 feet apart.

**Price, any of the following varieties:** Postpaid, each 30c; 6 for \$1.35; 12 for \$2.50. Not prepaid, each 25c; 6 for \$1.25; 12 for \$2.25.

**Edulis Superba.** Clear bright pink.

**Festiva Maxima.** White, flecked crimson.

**Felix Crousse.** Rich ruby red.

**Sarah Bernhardt.** Apple-blossom-pink.

## SPECIAL OFFER

One each of the 4 Peonies listed. Postpaid \$1.00. Not prepaid, 90c.

# FRUIT TREES, ROSES, SHRUBS, ETC.

Shipment made from our Nursery promptly, weather permitting.

Set all fruit trees and berry plants, pecan trees and roses in early spring, not later than April 10th. All prices, unless noted otherwise, are f.o.b. growing station. Buyer must pay carrying charges.

## APPLE TREES

	Ea.	3	10	25
1 yr. 3- 4-ft. size	\$0.30	\$0.75	\$2.00	\$4.50
By mail, 3- 4-ft. size	.45	.95	2.35	
2 yr. 4- 5-ft. size	.40	1.00	3.00	6.25
By mail, 4- 5-ft. size	.55	1.25	3.40	

**Delicious.** Ripens September, skin streaked red, flesh sweet.

**Early Harvest.** Ripens late in May, flesh yellow and juicy.

**Horse.** Ripens in August, large size, skin greenish yellow.

**Jonathan.** Ripens in September, skin red, flesh crisp, juicy.

**Red Delicious.** Ripens September, rich dark red skin, flesh sweet.

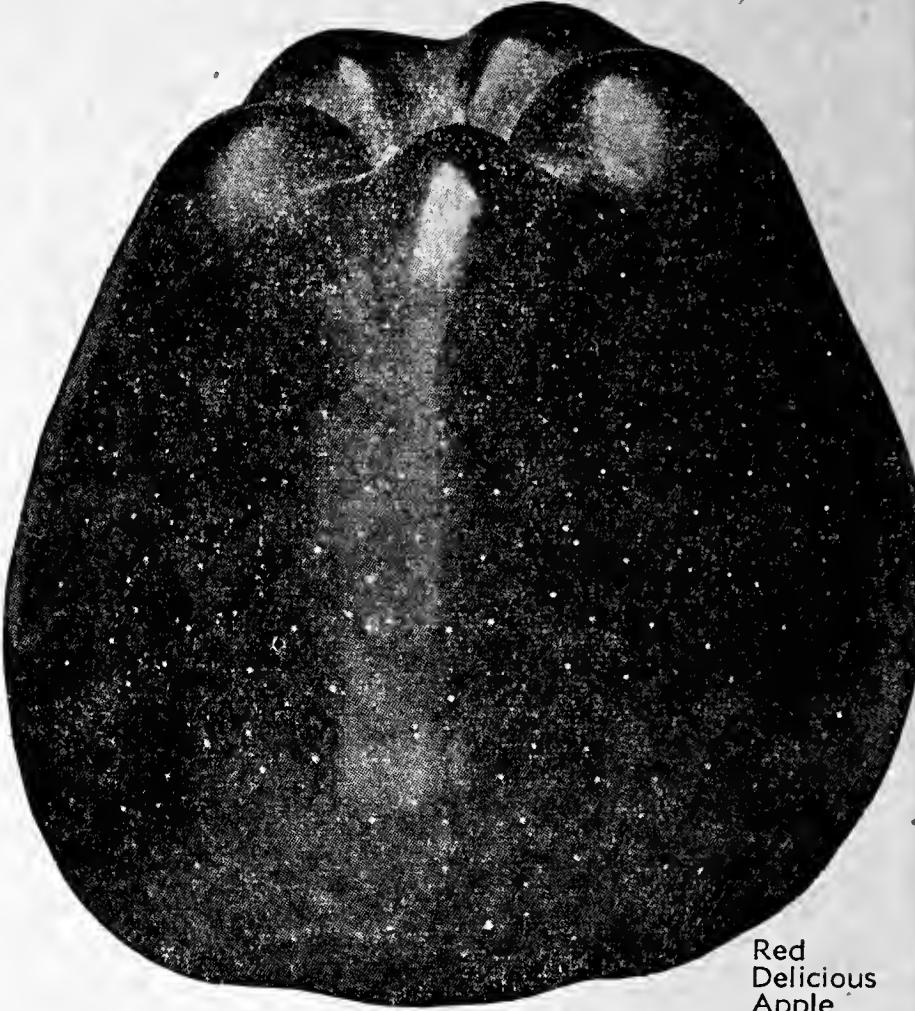
**Red June.** Ripens late June, deep red skin, flesh white and juicy.

**Stayman Winesap.** Ripens in October, skin dark red, flesh crisp, juicy.

**Winesap.** Ripens late September, skin red, flesh sub-acid.

**Yellow Delicious.** Ripens September, golden yellow, flesh crisp and sweet.

**Yellow Transparent.** Ripens in June, greenish yellow skin with white flesh.



Red  
Delicious  
Apple

## Plum Trees

	Ea.	3	10	25
2-yr., 4- 5-ft. size	\$0.40	\$1.00	\$3.00	\$7.00
By mail, 4- 5-ft. size	.55	1.25	3.40	

**Abundance.** Ripens in July, large cherry-red.

**Burbank.** Red with yellow shading, very sweet, ripens in July.

**Red June.** Bright deep red, fine quality, ripens in June.

**Shropshire Damson.** Rich deep blue, fine for preserving.

## Cherry Trees

	Ea.	3	10	25
2-yr., 4-5 ft. size	\$0.55	\$1.50	\$4.50	\$10.00
By mail, 4- to 5-ft. size	.70	1.75	4.90	

**Black Tartarian.** Sweet, ripens in May, skin black, large size.

**Governor Wood.** Sweet, ripens May 20th; skin red with yellow covering.

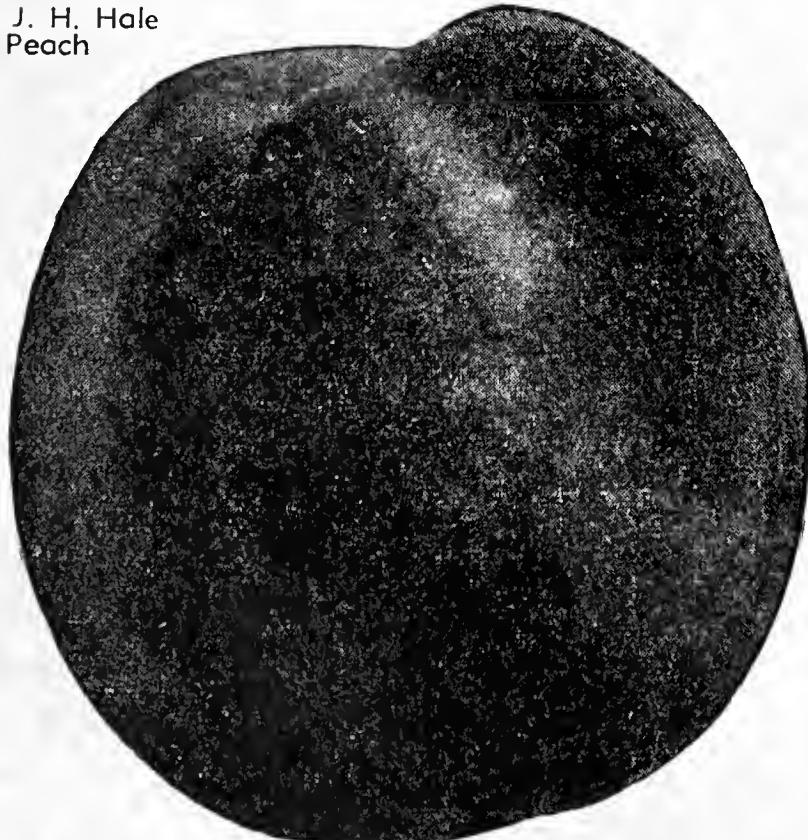
**Early Richmond.** Sour, ripens in May, sub-acid, skin light red.

**Large Montmorency.** Sour, ripens late May, large, rich red.

## Mulberry

**Hicks' Everbearing.** Excellent fruit, makes good shade in poultry yards. 2 yr. 4- to 5-ft. trees, each 50c; 3 for \$1.35. By mail, each 65c; 3 for \$1.60.

J. H. Hale  
Peach



## Apricot

4 to 5-ft. trees, each 45c; 3 for \$1.20; 10 for \$3.00.

By mail, each, 60c; 3 for \$1.45; 10 for \$3.40.

**Early Golden.** Flesh orange, hardy and productive.

**Royal.** Skin yellow with orange cheek, good size.

## Nectarines

4- to 5-ft. trees, each 45c; 3 for \$1.20; 10 for \$3.00.

By mail, each, 60c; 3 for \$1.45; 10 for \$3.40.

**Boston.** Skin white with light blush, sweet.

**Red Roman.** Skin white with deep red cheek, very juicy.

## Pear Trees

	Ea.	3	10	25
1 yr. 3- to 4-ft. size	\$0.35	\$0.90	\$2.75	\$6.00
By mail, 3- to 4-ft. size	.50	1.15	3.15	

	Ea.	3	10	25
2 yr. 5- to 6-ft. size	.45	1.20	3.75	8.50
By mail, 5- to 6-ft. size	.60	1.45	4.15	

**Bartlett.** Skin yellow, with very sweet juicy flesh.

**Garber.** Greenish yellow skin, large size, good for eating.

**Kieffer.** Ripens in September, has greenish yellow skin, fine for preserving.

**Pineapple.** Practically blight-proof, flesh coarse grained, very productive.

## Fig Bushes

1 yr. 18- to 24-inch bushes, postpaid, each 50c; 3 for \$1.20; 10 for \$3.00. Not prepaid, each 40c; 3 for \$1.00; 10 for \$2.75.

2 yr. 3- to 4-ft. bushes, postpaid, each 60c; 3 for \$1.55; 10 for \$4.40.

Not prepaid, each 50c; 3 for \$1.35; 10 for \$4.00.

**Brown Turkey.** Brownish red, large size, very sweet.

**Celeste.** Small, violet color, the sweetest of all.

## PEACH TREES

	Ea.	3	10	25
1 yr. 2- to 3-ft. size	\$0.25	\$0.60	\$1.75	\$3.75
By mail, 2- to 3-ft. size	.35	.75	2.00	

	Ea.	3	10	25
2 yr. 4- to 6-ft. size	.35	.90	2.50	5.00
By mail, 4- to 6-ft. size	.50	1.15	2.90	

**Arp Beauty.** Freestone, ripens in June, yellow skin with pink cheek, flesh yellow.

**Belle of Georgia.** Freestone, ripens in August, skin white with red blush, flesh white and sweet.

**Carman.** Freestone, ripens late June, skin white with pink cheek, flesh white and delicious.

**Chinese Cling.** Clingstone, ripens middle of August, skin white, flesh white and juicy.

**Early Elberta.** Freestone, ripens July 15th, yellow flesh.

**Elberta.** Freestone, ripens late July, skin yellow with red cheek, flesh yellow.

**Hiley Early Belle.** Freestone, ripens July 20th, skin white tinted red, flesh white.

**Indian Blood.** Clingstone, ripens August 25th, flesh red, streaked white.

**J. H. Hale.** Freestone, ripens August 10th, skin yellow and red, flesh yellow.

**Krumeck Late.** Freestone, ripens September, flesh yellow, skin yellow with red cheek.

**Mayflower.** Freestone, ripens the earliest, June 1st to 10th. Flesh white, skin white with faint blush.

**Red Bird.** Semi-cling, ripens June 15th, skin rosy red, flesh white.

# ROSES

2 yr. No. 1 First Quality Field Grown Bushes.  
Postpaid, each 50c; 6 for \$2.25; 12 for \$4.15. Not prepaid, each 40c; 6 for \$2.00; 12 for \$3.75.

## Hybrid Teas, monthly everblooming varieties

Antoine Rivoire. Pink.  
Ami Quinard. Dark red.  
Betty Uprichard. Pink.  
Briarcliff. Pink.  
Caledonia. White.  
Chas. K. Douglas. Red.  
Columbia. Pink.  
Dame Edith Helen. Pink.  
Duchess of Luxembourg. Yellow.  
Edith Nellie Perkins. Red.  
E. G. Hill. Scarlet.  
Etoile de Hollande. Red.  
Etoile de France. Crimson.  
Francis Scott Key. Red.  
Golden Dawn. Golden.  
Golden Ophelia. Yellow.  
Gruss an Teplitz. Red.  
J. J. L. Mock. Pink.  
K. A. Victoria. White.  
Killarney. Pink.  
Killarney. White.  
Lady Hillingdon. Yellow.  
Margaret McGredy. Red.  
Mrs. Chas. Bell. Salmon.  
Mrs. P. S. DuPont. Yellow.  
Ophelia. Pink.  
Pres. Herbert Hoover. Flame.  
Radiance. Pink.  
Red Radiance. Red.  
Rapture. Pink.  
Rosyln. Orange.  
Sunburst. Yellow.  
Talisman. 3 toned.  
White Ophelia. White.

## Two-Year Hybrid Perpetual Roses

Postpaid, each 45c; 6 for \$2.05; 12 for \$3.90. Not prepaid, each 35c; 6 for \$1.80; 12 for \$3.50.  
American Beauty. Red.  
F. K. Druschki. White.  
Gen. Jacqueminot, Red.

Paul Neyron, Pink.  
Prince Cam. de Rohan. Pink.  
Ulrich Brunner. Red.

## Two-Year Climbing Roses

Postpaid, each 45c; 6 for \$2.05; 12 for \$3.90. Not prepaid, each 35c; 6 for \$1.80; 12 for \$3.50.  
American Beauty. Red.  
Columbia. Pink.  
Mme. Butterfly. Flame.  
Pres. Herbert Hoover. Pink.  
Red Radiance. Red.  
Talisman. 3 toned.

Dr. W. Van Fleet. Pink.  
Paul's Scarlet. Red.  
Mary Wallace. Pink.  
Silver Moon. White.  
Marechal Niel. Yellow.

## Two-Year Dwarf Polyantha Baby Roses

Postpaid, each 50c; 6 for \$2.25; 12 for \$4.15. Not prepaid, each 40c; 6 for \$2.00; 12 for \$3.75.  
Gloria Mundi. Orange.  
Golden Salmon. Yellow.

Ideal. Red.  
Orleans. Pink.

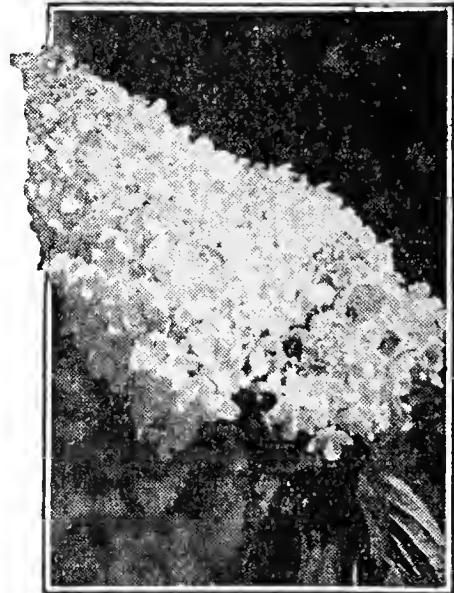
## FLOWERING SHRUBS

Well branched, 1-year plants, 18 to 24 inches in height.

Postpaid, each 40c; 3 for \$1.00; 10 for \$2.65. Not prepaid, each 30c; 3 for 75c; 10 for \$2.25.

We can supply the following varieties:

Almond. Pink or white.  
Althea. Red, pink, white.  
Butterfly Bush. Davidi Magnifica, Ile de France.  
Calycanthus (Sweet Shrub).  
Crepe Myrtle. Pink, crimson or white.  
Cydonia Japonica (Japanese Quince).  
Deutzia Crenata. Pink-flowered.  
Forsythia (Golden Bell).  
Hydrangea Arborescens (Hills of Snow).  
Hydrangea Paniculata. White.  
Jasminum. Common white.  
Lilac (Syringa). Purple and white.  
Philadelphus Coronarius (Mock Orange).  
Philadelphus, Virginal. White.  
Spiraea, Anthony Waterer. Red.  
Spiraea Billardi. Pink.  
Spiraea Van Houtte. White.  
Vitex (Chaste Tree). Lilac.  
Weigela Candida. White.  
Weigela, Eva Rathke. Red.  
Weigela Rosea. Pink.



Hydrangea Paniculata



Talisman Rose

## Ornamental Trees

PINK DOGWOOD. 3-4 ft. Bare root.  
Each, \$2.00.

WHITE DOGWOOD. 3-4 ft. Bare root.  
Each, \$1.25.

RED FLOWERING PEACH. 3-4 ft.  
Each, 75c.

WHITE FLOWERING PEACH. 3-4 ft.  
Each, 75c.

## Hedge Plants

2 yr. 24- to 36-inch, well branched plants. 2 varieties—Amur River; California.

Postpaid, 10 plants, 95c; 25, \$1.50; 100, \$4.90. Not prepaid, 10 plants, 75c; 25, \$1.25; 100, \$4.50.

ABELIA GRANDIFLORA. 2 yr.  
transplanted, 2 to 3 feet. Postpaid,  
each 55c; 5 for \$2.00. Not prepaid,  
each, 40c; 5 for \$1.75; 10 for \$3.25.



Klondyke  
Strawberry

## Grape Vines

2 yr. No. 1 grade, postpaid, each 30c; 3 for 65c; 10 for \$1.50.  
Not prepaid, each 20c; 3 for 50c; 10 for \$1.25.  
Concord. Blue-black, sweet and juicy.  
Lutie. Large brownish red, very sweet.  
Moore's Early. Very early, large black, ripens uniformly.  
Niagara. Greenish white, vine vigorous, productive.

## Scuppernong Vines

2 yr. No. 1 grade, postpaid, each 60c; 3 for \$1.55; 10 for \$4.35. Not prepaid, each 50c; 3 for \$1.35; 10 for \$4.00.  
Bronze. Color brown, thick skin, very sweet.  
James. Blue-black, larger and earlier than Bronze.

## Grafted Pecans

1 yr. 2- to 3-ft. trees, postpaid, each, \$1.00; 3 for \$2.60; 10 for \$6.90. Not prepaid, each 80c; 3 for \$2.25; 10 for \$6.50.  
2-yr., 4- to 5-ft. trees, not prepaid, each \$1.20; 3 for \$3.30; 10 for \$9.50. Cannot mail these.  
Stuart. Bears early, oval shape, thin shell.  
Schley. Long shaped, a real papershell nut.  
Success. Very large, almost round, thin shell.

## Strawberry Plants

Set in March or April 15 inches apart in 3 1/2 ft. rows. Select a good clean place, free from Bermuda grass so you can cultivate often without disturbing the roots of the plant.

Postpaid, 100 plants, 65c; 500, \$2.30; 1000, \$3.40. Not prepaid, 100, 50c; 500, \$2.00; 1000, \$3.00; 2000, \$5.50; 5000, \$12.50.  
Blakemore. Very early, bright red, profitable for market.  
Gandy. Late, dark red of good size.  
Klondyke. Bright glossy red, fine quality, good for market or home use.

## Raspberries

2 yr. strong transplanted canes. Postpaid, 10 plants, 90c; 25, \$1.75; 100 for \$5.65. Not prepaid, 10, 75c; 25, \$1.50; 100, \$5.25.

Cumberland. Large blackcap, fine flavored.  
Latham. Rich red fruit, ripens late, large size.  
St. Regis. Bright crimson, sweet, everbearing variety.

## Blackberries

2 yr. extra strong, transplanted canes. Postpaid, 10 plants, 90c; 25, \$1.65; 100 for \$5.40. Not prepaid, 10, 75c; 25, \$1.40; 100, \$5.00.

Early Harvest. Ripens early, medium size, very sweet.  
Eldorado. Large size, soft, delicious quality.

## Dewberries

2 yr. strong transplanted stock. Postpaid, 10 plants, 90c; 25, \$1.65; 100, \$5.40. Not prepaid, 10, 75c; 25, \$1.40; 100, \$5.00.  
Lucretia. Large, soft, black fruit of fine flavor.

## Youngberries

2 yr. strong transplanted stock. Postpaid, 10 plants, \$1.15; 25, \$2.50; 100, \$8.90. Not prepaid, 10, \$1.00; 25, \$2.25; 100, \$8.50.

## Boysenberries

Extra large in size, fruit reddish black, succeeds almost anywhere and produces a big crop. Set plants 6 feet apart.  
Plant Boysenberry for a good money crop.

Strong tip-rooted plants, postpaid, 10 for \$1.05; 25 for \$2.20; 100 for \$7.90. Not prepaid, 10 for 90c; 25 for \$2.00; 100 for \$7.50.

Spray Roses for Black Spot with Tri-Ogen

RUSSELL-HECKLE 53

# Garden and Vegetable Plants

## Frost-Proof Cabbage Plants

These plants will stand light freezes and considerable cold with little or no damage. They are raised outdoors and are hardy and vigorous. If weather permits they can be set out in this section early in February. If you cannot plant on arrival, heel the plants in the ground; they will keep for weeks. These open air plants enable the gardener to bring full grown heads to the market 3 weeks earlier. Do not be disappointed if the plants look wilted or yellow on arrival. Set the roots in water for 24 hours and they will revive and grow perfectly satisfactory. All Frost-Proof Cabbage Plants have a wilted appearance but they will freshen up and come through if you handle them promptly as directed.

Orders for Frost-Proof Cabbage Plants will be filled from February 1st to April 1st and all orders will be sent to customers promptly unless weather is too cold or severe.

### PRICES OF FROST-PROOF CABBAGE PLANTS

	Postpaid	Express						
	100	200	500	1000	100	200	500	1000
Ea. J. Wakefield . . . . .	\$0.35	\$0.60	\$1.20	\$1.85	\$0.25	\$0.45	\$1.00	\$1.50
Charleston Wakefield . . . . .	.35	.60	1.20	1.85	.25	.45	1.00	1.50
Early Flat Dutch . . . . .	.35	.60	1.20	1.85	.25	.45	1.00	1.50

No plants shipped C. O. D. No order for less than 100 plants can be accepted. Customers wanting prices on large lots, write us for special prices.

## Eggplants

**BLACK BEAUTY, NEW YORK PURPLE.** Ready April 15th. Postpaid, doz., 30c; 50, 75c; 100, \$1.20. Not prepaid, doz., 20c; 50, 60c; 100, \$1.00.

## Lettuce Plants

**BIG BOSTON, NEW YORK WONDERFUL.** Ready March 1st. Postpaid, 50, 30c; 100, 50c; 500, \$1.50; 1000, \$2.75. Not prepaid, 50, 20c; 100, 35c; 500, \$1.25; 1000, \$2.25.

## Pepper Plants

**CALIFORNIA WONDER, CHINESE GIANT, RUBY KING, PIMENTO, LONG RED CAYENNE.** Ready April 1st. Postpaid, doz., 25c; 50, 65c; 100, \$1.00; 500, \$3.25; 1000, \$5.40. Not prepaid, doz., 15c; 50, 50c; 100, 75c; 500, \$3.00; 1000, \$5.00.

## Sweet Potato Plants

Ready April 15th.

**CERTIFIED NANCY HALL.**

**CERTIFIED PORTO RICO.**

Prices on request.

## Seedling Tomato Plants

Ready March 25th.

**BEEFSTEAK, GULF STATE, MASTER MARGLOBE, PONDEROSA, STONE, BONNY BEST.** Postpaid, 100, 65c; 500, \$2.25; 1000, \$3.40. Not prepaid, 100, 50c; 500, \$2.00; 1000, \$3.00; 5000, \$12.50.

## Transplanted Tomato Plants

Ready April 10th.

Same varieties as seedlings. Postpaid, doz., 30c; 50, 75c; 100, \$1.00; 1000, \$5.75. Not prepaid, doz., 20c; 50, 50c; 100, 75c; 1000, \$5.00.

## Asparagus Roots

**MARY WASHINGTON.** 2-year strong roots. Postpaid, 20, 60c; 50, \$1.20; 100, \$2.00. Not prepaid, 20, 50c; 50, \$1.00; 100, \$1.75.

## Rhubarb Roots

**VICTORIA.** 1 year. Postpaid, each, 15c; doz., \$1.00. Not prepaid, each, 10c; doz., 75c.

## Horseradish Roots

**MALINER KREN.** Cuttings. Postpaid, doz., 40c; 50, \$1.40; 100, \$2.50. Not prepaid, doz., 35c; 50, \$1.25; 100, \$2.25.

## Bermuda Onion Plants

Plant in February or March, 4 to 6 inches apart in 24-inch rows; early plantings should be mulched slightly. Bermuda Onion Plants give you green onions or mature the crop much earlier than those grown from sets and besides they do not bolt to seed like the sets.

We begin shipping onion plants in January if weather is not too severe.



	Postpaid	200	500	1000	Postpaid	200	500	1000
Crystal White Wax . . . . .	\$0.30	\$0.60	\$1.00	\$0.20	\$0.40	\$0.75		
Yellow Bermuda . . . . .	.30	.60	1.00	.20	.40	.75		

Our green ink price sheet quotes Onion Plants in larger quantities. No plants shipped C. O. D.

## Beet Plants

Ready March 1st.

**CROSBY'S EGYPTIAN, DETROIT DARK RED.** Postpaid, 100, 50c; 200, 85c; 500, \$1.75; 1000, \$2.85. Not prepaid, 100, 35c; 200, 60c; 500, \$1.50; 1000, \$2.50.

## Cauliflower

**EARLY SNOWBALL.** Ready March 1st. Postpaid, doz., 25c; 25, 40c; 100, \$1.10. Not prepaid, doz., 15c; 25, 25c; 100, 85c.

## Celery Plants

**GIANT PASCAL.** Ready March 15th. Postpaid, 25, 25c; 50, 40c; 100, 75c. Not prepaid, 25, 15c; 50, 30c; 100, 50c.

## Germaco Hotkaps

Give Your Garden a Good Start  
With HOTKAPS



### New Method of Plant Protection

Germaco Hotkaps are patented wax paper cones that completely cover each plant—the only way to fully protect them from frost. They are an "individual hot-house for each plant," protecting them not only from frost, but from wind, rain, ground-crusting, and insects as well. This is your assurance of earlier, bigger crops, and early-to-market prices.

Be the first with a spring garden. Protect your plants against weather and insects with HOTKAPS. Have vegetables and flowers weeks earlier.

They are miniature greenhouses. Cover small plants such as tomato, pepper and eggplants, or cover hills after the seed has been planted in Cantaloupe, Cucumber and Squash.

Prices: Home Garden Package, 25 Hotkaps and cardboard setter, 50c; by mail, 60c.

Special—100 Hotkaps with garden setter and tamper, \$2.65; by mail, \$2.85.

Special—250 Hotkaps with garden setter and tamper, \$3.85; by mail, \$4.10.

100 Hotkaps (loose) without setter, \$1.90; by mail, \$2.10.

1000 Hotkaps without setter, \$10.25.

5000 Hotkaps without setter, \$50.75.

Garden setter alone, 50c; mailed, 60c.

Steel Setter and Tamper, \$1.50; by mail, \$1.75.

Steel Tamper alone, 25c; mailed, 35c.

## FIVE PACKETS OF FLOWER SEEDS—FREE

With any order for garden or flower seeds, to the value of \$1.00 or more at catalog prices, we will send you free five packets of flower seed, our selection. Merely write on your order Free Flower Seeds.

Spray Tomato Plants with Nicotine Pyrox

# Russell-Heckle's Spray Guide

To raise good fruit, spraying at the right time is essential. Don't wait until it's too late and the damage has been done. Timing in spray work is most important. Put on the spray—don't put it off.

## SCHEDULE FOR SPRAYING PEACHES, PLUMS, APRICOTS

### First Application

**DORMANT STAGE**—When trees are dormant spray from Dec. 1st to March 1st, to control scale insects. Spray trees thoroughly until they drip. It is essential to use a sprayer with good force.

In 50 gallons of water,  $2\frac{1}{2}$  gallons Oil Emulsion or 7 gallons of Lime-Sulphur or 1 gallon of Dendrol. Add to Dendrol and Oil Emulsion 4 lbs. Bordeaux or 2 lbs. Basic Copper Sulphate for leaf curl.

In 2 gallons of water, 1 pint Oil Emulsion or 1 quart of Lime-Sulphur or  $\frac{1}{2}$  pint Dendrol. Add to Dendrol and Oil Emulsion  $\frac{1}{4}$  lb. Bordeaux or 4 ozs. Copper Sulphate, for leaf curl.

You can also use the Dry Lime-Sulphur, if you wish, at rate of 1 lb. to 5 gallons of water.

### Second Application

**PINK STAGE**—Which is when buds show pink before blossom opens, use any of the following:

In 50 gallons water use  $2\frac{1}{2}$  lbs. Dritomic Sulphur, or  $2\frac{1}{2}$  lbs. Wettable Sulphur.

In  $2\frac{1}{2}$  gallons water, use 4 tablespoonfuls Dritomic Sulphur, or same quantity of Wettable Sulphur. Don't use any Arsenate of Lead in this spray.

### Third Application

**PETAL FALL STAGE**—As soon as  $2/3$  of the petals have fallen use any of the following formulas:

In 50 gallons of water—

1st. Put in water 2 lbs. Zinc Sulphate.

2nd. Put in water 4 lbs. Hydrated Lime.

3rd. Put in water  $\frac{3}{4}$  lb. Arsenate of Lead.

4th. Put in water  $2\frac{1}{2}$  lbs. Peach Dritomic Sulphur, or  $2\frac{1}{2}$  lbs. Wettable Sulphur.

Or you can use in place of above in 50 gallons of water, 12  $\frac{1}{2}$  lbs. Dry Mix, nothing else.

In  $2\frac{1}{2}$  gallons of water—

1st. Put in water 2 tablespoonfuls Zinc Sulphate.

2nd. Put in water 4 tablespoonfuls Hydrated Lime.

3rd. Put in water 2 tablespoonfuls Arsenate of Lead.

4th. 2 tablespoonfuls Peach Dritomic Sulphur, or same quantity of Wettable Sulphur.

Or you can use in place of above in  $2\frac{1}{2}$  gallons of water  $\frac{1}{2}$  lb. Dry Mix, nothing else.

### Fourth Application

**SHUCK SPRAY**—Which is as soon as the shuck starts to slip from the newly formed peach. This is a most important spray to prevent worms in peaches.

Use same formula as given in the third application.

### Fifth Application

**FIRST COVER SPRAY**—Which should be two to three weeks after shuck spray.

Use same formula as given in the third application for later brood of Curculio to make sure your fruit will not be wormy.

### Sixth Application

**LAST COVER SPRAY**—Which will be about 2 to 3 weeks before ripening to prevent brown rot.

In 50 gallons water  $2\frac{1}{2}$  lbs. Peach Dritomic Sulphur or  $2\frac{1}{2}$  lbs. Wettable Sulphur.

In  $2\frac{1}{2}$  gallons of water 2 tablespoonfuls Peach Dritomic Sulphur or  $2\frac{1}{2}$  tablespoonfuls Wettable Sulphur.

If season is damp and wet, spray quickly before the sun shines to kill brown rot spores.

### Thinning Peaches

After the June fall, you should thin by hand. Take off some of the young fruit; if you have a full crop, remove plenty. Don't let the peaches touch each other. The thinning gives you a better chance to cover the fruit with the Sulphur Spray. It will help you to control brown rot and makes the peaches left on the trees grow larger.

## SCHEDULE FOR SPRAYING APPLES AND PEARS

### First Application

**DORMANT STAGE**—Use either of these formulas separately:

Oil Emulsion—1 gallon to 20 gallons water. 1 pint to  $2\frac{1}{2}$  gallons of water.

Lime-Sulphur—1 gallon to 7 gallons water. 1 quart to 2 gallons water.

Dendrol—1 gallon to 40 gallons water.  $\frac{1}{2}$  pint to  $2\frac{1}{2}$  gallons water.

Dry Lime-Sulphur—1 lb. to 5 gallons water.  $\frac{1}{2}$  lb. to  $2\frac{1}{2}$  gallons of water.

### Second Application

**DELAYED DORMANT STAGE**—When leaf shows green use either of these:

Lime-Sulphur Liquid, 1 gallon to 50 gallons water.  $\frac{1}{2}$  pint to  $2\frac{1}{2}$  gallons of water.

Dry Lime-Sulphur, 1 lb. to 20 gallons water. 2 ozs. to  $2\frac{1}{2}$  gallons of water.

### Third Application

**CLUSTER BUD STAGE**—When clusters are completely open and before blossoms open use:

Apple Dritomic Sulphur—3 lbs. to 50 gallons water.  $\frac{1}{4}$  lb. to  $2\frac{1}{2}$  gallons water.

Add Hydrated Lime— $2\frac{1}{2}$  lbs. to 50 gallons water.  $\frac{1}{4}$  lb. to  $2\frac{1}{2}$  gallons water.

Also add Arsenate of Lead— $1\frac{1}{2}$  lbs. to 50 gallons water. 3 tablespoonfuls to  $2\frac{1}{2}$  gallons water.

Wettable Sulphur can be substituted for Dritomic Sulphur.

### Fourth Application

**CALYX OR PETAL FALL**—When two-thirds of blossoms have fallen, use this combination:

Apple Dritomic—3 lbs. to 50 gallons water.  $\frac{1}{4}$  lb. to  $2\frac{1}{2}$  gallons water.

Add Hydrated Lime— $2\frac{1}{2}$  lbs. to 50 gallons water.  $\frac{1}{4}$  lb. to  $2\frac{1}{2}$  gallons water.

Also add Arsenate of Lead— $1\frac{1}{2}$  lbs. to 50 gallons water. 3 tablespoonfuls to  $2\frac{1}{2}$  gallons water.

### Brood Cover Sprays

**Fifth Application**—First cover, same as No. 4, or Superla Summer Oil as directed below.

**Sixth Application**—Second cover, same as No. 4, or Superla Summer Oil as directed below.

**Seventh Application**—Third cover, same as No. 4, or Superla Summer Oil as directed below.

**Eighth Application**—Normally July 1st, with Superla Summer Oil as directed below.

When applying Superla Summer Oil use 2 quarts to 50 gallons water;  $\frac{1}{2}$  pint to 6 gallons water; adding 3 lbs. Hydrated Lime with  $1\frac{1}{2}$  lbs. Arsenate of Lead to 50 gallons water;  $\frac{1}{4}$  lb. to 10 gallons water.

If bothered with Aphis or lice, add Black Leaf 40 at rate of 5 ozs. to 50 gallons water.

If troubled with Bitter Rot or Blotch—use Bordeaux Mixture in place of Apple Dritomic Sulphur, beginning with third application.

If bothered with Fire Blight—spray trees in full bloom with Basic Copper Sulphate or Bordeaux Mixture—4 lbs. to 50 gallons water;  $\frac{1}{2}$  lb. to 5 gallons of water.

### FOR PEACH TREE BORERS

Apply from October the first to November 10th.

Sweep away the trash and use at base of peach trees, close up around tree, 1 ounce of Paradichlorobenzene. Cover with dirt and mound up around tree in the shape of a tent. At base the mound will be approximately 24 inches and mound to a height of twelve inches. Apply on trees 4 years and older. Leave the Paradow around the tree 3 to 4 weeks, then remove. Do not use on any trees under 4 years of age. Or you can use the New Liquid material Ethylene Dichloride Emulsion to kill Peach Borers. This material can be used at any time from October 1st to March 1st, if weather is mild. 1 gallon makes  $2\frac{1}{2}$  gallons, which is enough to treat about 70 4- to 5-year-old trees or 180 2-year-old trees.

Further information on spraying other Fruit Trees, Grape Vines, Berry Plants, Pecans, Figs, Evergreens, Shrubs, Roses and Vegetables given on page 58.

# Spray Materials and Insecticides

Most insecticides and liquids are now mailable. Prices f. o. b. Memphis, and subject to fluctuations, buyer paying carriage charges, except where priced parcel post paid. See Green Ink List for quantity prices.



## Acme Ant Kill

Junior Set, 2-oz. bottle Syrup with 2 cups. 35c; postpaid, 45c.

Cottage Set, 3-oz. bottle Syrup with 5 cups. 60c; postpaid, 75c.

2 ozs. Syrup separately. 20c; postpaid, 30c.

## Antrol Sets

For controlling ants; safe and effective. Price, ready filled sets of 4 containers and syrup, 40c; postpaid, 55c.

## Ant Gas

Kills ants in the lawn or home, eradicates moles. 1/2-pt. can, 50c; postpaid, 65c.

## Acme Aphis Spray

A contact spray for lice, aphis, thrip, etc. 3-oz. tube (makes 1 gal.), 35c. Postpaid, 3 ozs., 45c.

## Acme All Round Spray

A combined insecticide and fungicide. Gets chewing and sucking insects at one blow. 1/4 lb., 35c; postpaid, 45c.

## Acme Bait-M

An especially prepared bait to destroy cut worms and grasshoppers. Bait-M is 100 per cent effective. 1 1/2-lb. carton, 35c; postpaid, 50c.

## Apple Dritomic Sulphur

This is especially for summer spray on apples. Cures blotch and codling moth. 4 lbs., 60c; postpaid, 75c.

## Arsenate of Lead

Kills all chewing insects, dusted or sprayed. 1/2 lb., 20c; 1 lb., 35c; 4 lbs., 75c. Postpaid, 1/2 lb., 30c; 1 lb., 45c; 4 lbs., 90c.

## Arsenate of Zinc

Kills potato bugs. 4-lb. bag, 70c; postpaid, 85c.

## Basic Copper Sulphate

Excellent to prevent peach leaf curl when used in combination with oil emulsion. 5-lb. bag, \$1.00; by mail, \$1.20.

## Basic Zinc Arsenate

For controlling codling moth on apple trees. 4-lb. bag, 70c; by mail, 85c.

## Black Leaf 40

Kills by contact and fumes, especially desirable for controlling all kinds of lice and red spider on flowers, roses, shrubs and trees. Also for lice on poultry. 1 oz., 35c; 5 ozs., \$1.00; 1-lb. bottle, \$2.25; 2-lb. can, \$3.25; 5-lb. can, \$5.85; 10-lb. can, \$10.60. Postpaid, 1 oz., 40c; 5 ozs., \$1.10; 1-lb. bottle, \$2.40; 2-lb. can, \$3.45; 5-lb. can, \$6.10; 10-lb. can, \$10.95.

## Bluestone—Copper Sulphate

For preparing home-made Bordeaux Mixture. Use 3 lbs. of bluestone, 6 lbs. hydrated lime with 50 gallons of water; for peach leaf curl and most fungous diseases. 1 lb., 15c; 10 lbs., 90c. Postpaid, 1 lb., 25c; 10 lbs., \$1.15. Powdered or small crystals.

## Bordeaux Mixture

Controls fungous diseases on roses, shrubs and plants. 1 lb., 30c; 4 lbs., 65c. Postpaid, 1 lb., 40c; 4 lbs., 80c.

## Bordeaux-Arsenate (Pestoy)

A combined Bordeaux with arsenate of lead, fine for potatoes or tomatoes. 1 lb., 35c; 4 lbs., \$1.00; 25 lbs., \$4.75. Postpaid, 1 lb., 45c; 4 lbs., \$1.15.

## Bordeaux Dust with Arsenical

A combined formula of Bordeaux and Arsenate of Lead. For dusting only. 25-lb. bag, \$2.50. at store.

## Calcium Arsenate

Kills effectively potato bugs, potato beetles, tomato worms, grasshoppers, army worm and cotton boll weevil. 1 lb., 20c; 4-lb. bag, 50c. Postpaid, 1 lb., 30c; 4-lb. bag, 65c.

## Carbon Di-Sulphide

For keeping weevils out of grain and cow-peas. 1 lb., 45c; 5 lbs., \$1.75. Not mailable.

## Ceresan 2%

For disinfecting Cottonseed. Prevents wilt leaf spot and admirals earlier planting. See page 21 for information. 1 lb., 70c; 5 lbs., \$3.00; 25 lbs., \$12.75; 100 lbs., \$50.00; 300 lbs., \$145.00. Postpaid, 1 lb., 80c; 5 lbs., \$3.20.

## Ceresan, New Improved

For using on sorghum seed, oats, barley, wheat to control smut and other diseases. See page 21 for full information. 1 lb., 70c; 5 lbs., \$3.00; 25 lbs., \$12.75. Postpaid, 1 lb., 80c; 5 lbs., \$3.20.

## Cooper's Magic Disinfectant

Co-efficiency 4, a reliable dip and disinfectant and antiseptic. 1/2 pt., 25c; pt., 35c; qt., 50c; gal., \$1.40; 5 gals., \$6.00. Not mailable.

## Copper Solution

Controls black spot and mildew on roses, rust on blackberries, pear blight, grape rot, etc. 1-pint can, 75c; postpaid, 90c.

## Corrosive Sublimate

Used for treating sweet potatoes before bedding to prevent black rot. 1/4 lb., 50c; 1 lb., \$1.50, 5 lbs., \$7.00. Postpaid, 1/4 lb., 60c; 1 lb., \$1.60; 5 lbs., \$7.20.

## C. P. O. Liquid Soap

A useful soap spreader, its use will control scale, aphids, lace fly, mealy bug, harlequin bug and many forms of beetles when added to Black Leaf 40 or Ever Green. 3-oz. bottle, 25c; 1-pt. can, 60c; 1-qt. can, 90c; 1-gal. can, \$2.00. Postpaid, 35c, 75c, \$1.10, \$2.35.

## Crow Repellers

When these preparations are applied to seed corn before planting they will prevent birds or crows from pulling the corn up. They will not gum the planter and their use will save time and worry. 1-bu. size, 60c; 4-bu. size, \$1.50. Postpaid, 1-bu. size, 70c; 4-bu. size, \$1.65.

## Cryolite

Can be used for dusting or spraying, and controls all sorts of beetles and worms on all garden crops, also on fruit trees. It is safe, effective, and economical. Prices, 6-lb. pkg., \$1.00; 24 lbs., \$3.50; 48 lbs., \$6.90. Postpaid, 6-lb. pkg., \$1.25; 24 lbs., \$3.95.

## Cuproicide

For treating all seeds to give better germination and prevent damping off. 4-oz. can, 35c; 1-lb. can, 90c; 5-lb. can, \$3.75. Postpaid, 45c, \$1.00, \$3.95.

## Cubor

A Non-Poisonous Insecticide. A complete Rotenone Spray with spreader for all plant insects, whether chewing or sucking. 1/2 oz., 10c; 2 ozs., 25c; 1 lb., \$1.00. Mailed, 15c, 35c, and \$1.10.

## Cyanogas—A Dust

Kills ants, rats, mice, moles, fleas, bed bugs, clothes moths, wax moths, pigeons, sparrows, chinch bugs on lawns, grape leaf hoppers, mealy bugs, melon aphids, squash bugs, etc. 1/2 lb., 45c; 1 lb., 75c; 5 lbs., \$3.00. Not mailable.

## Cyanogas—G Fumigant

Especially prepared for weevils in grain. Ask price.

## Cyanogas Ant Killer

Put a small quantity of Cyanogas in their nests and your worries are over. 4-oz. can, 25c; postpaid, 35c.

## Dritomic Sulphur

One of the best preparations for the shuck spray, and growing period or summer spray on peaches, apples, etc. On the shuck spray add arsenate of lead. Dritomic Sulphur will control scab and brown rot on peaches and plums, and scab on the apple. 1-lb. pkg., 25c; 5-lb. bag, 75c. Postpaid, 1-lb. pkg., 35c; 5-lb. bag, 90c.

## Dowax

Coating young trees with liquid wax prevents desiccation and makes them almost certain to grow. Gallon can, \$2.25, postpaid, \$2.65.

## Dry Mix

A combined spray for Peaches and plums as soon as the blossoms have fallen. Contains also arsenate of lead.

Dry Mix prevents wormy peaches, also fungous diseases, rot, etc. 1 lb., 25c; 5 lbs., 75c; 12 1/2 lbs., \$1.25. Postpaid, 1 lb., 35c; 5 lbs., 95c; 12 1/2 lbs., \$1.50.

## Ethylene Dichloride Emulsion

The new liquid method for controlling peach tree borers. It's easier to use with less work than the P.D.B. Crystals. One gallon of Emulsion makes 2 1/2 gallons of liquid, enough for 50 to 90 trees.

This new material can also be used at any time in the late fall, winter or early spring months. Price, 1 qt., 45c; 1/2 gal., 85c; 1 gal., \$1.35; 5 gals., \$6.25; 50 gals., \$45.00, f.o.b. Memphis. Postpaid, 1 qt., 65c; 1/2 gal., \$1.15; 1 gal., \$1.80.

## Ethylene Chlorhydrin

A new chemical applied to spring dug potatoes; makes them sprout quickly. One quart makes enough to treat eight bushels of seed potatoes. 1/2 pt., 50c; pt. \$1.00; qt., \$2.00; gal., \$4.25. By mail, 1/2 pt., 70c; pt., \$1.20; qt., \$2.30; gal., \$4.75.

## Ever Green

Non-Poisonous Insecticide. Kills them all; safe to use on tender plants and blossoms, cannot burn, non-poisonous.

Controls insects such as aphis, cut-worms, squash bugs, potato bugs, caterpillars, beetles, etc. 1-oz. bottle, 35c; 6-oz. can, \$1.00; 16-oz. can, \$2.15; 1-gal. can, \$12.20. By mail, 1 oz., 40c; 6 ozs., \$1.10; 16 ozs., \$2.30; 1 gal., \$12.50.

## Fish Oil Soap

Prevents and cures aphis, lice and other troubles. Mixed with other spray materials, acts as a spreader. 1 lb., 35c; 5 lbs., \$1.10; 10 lbs., \$1.80. Postpaid, 1 lb., 45c; 5 lbs., \$1.30; 10 lbs., \$2.10.

# Spray Materials and Insecticides

## Flit

Sure death to flies and mosquitoes.  $\frac{1}{2}$  pt., 15c; pt., 25c; qt., 50c; gal., \$1.50. Postpaid,  $\frac{1}{2}$  pt., 25c; pt., 40c; qt., 70c.

## Formacide

Seed and soil disinfectant used as a dust to control damping off.  $\frac{1}{2}$  lb., 45c; 1 lb., 75c; 5 lbs., \$2.00. Postpaid,  $\frac{1}{2}$  lb., 55c; 1 lb., 90c; 5 lbs., \$2.20.

## Formaldehyde or Formalin

Used for treating oats, wheat, etc., to prevent smut; also to prevent potato scab. 1 lb., 40c; postpaid, 50c.

## Fungtrogen

An effective control of black spot and mildew on Roses, Phlox, etc. 4-oz. can, 50c;  $\frac{1}{2}$ -pt. can, 75c; 1-pt. can, \$1.25. Postpaid, 4 ozs., 60c;  $\frac{1}{2}$  pt., 85c; pt., \$1.40.

## Garden Guard

A Rotenone preparation that is perfectly harmless to humans, but effective against both sucking and chewing insects. Used as a dust. 1 lb., 35c; 4 lbs., 75c; 25 lbs., \$3.25. Postpaid, 1 lb., 45c; 4 lbs., 95c.

## Grafting Wax

Used for grafting scions on trees.  $\frac{1}{4}$  lb., 20c;  $\frac{1}{2}$  lb., 30c; 1 lb., 50c. Postpaid,  $\frac{1}{4}$  lb., 25c;  $\frac{1}{2}$  lb., 40c; 1 lb., 60c.

## Hammond's Rose Dust

Prevents and cures black spot, blight and mildew on roses and other plants. 1 lb., 35c; postpaid, 45c.

## Hydrated Lime

For mixing with Sulphur in making dry mix or home boiled Lime-Sulphur, also used for sweetening the soil in flower and vegetable gardens. 10-lb. sack, 25c; 40-lb. sack, 40c. By mail, 10 lbs., 50c.

## Kayso

Prepared casein is a spreader and adhesive. It makes any poison stick and resistant to washing effect of rains. 2 lbs., 50c; 10 lbs., \$1.75. Postpaid, 2 lbs., 65c; 10 lbs., \$2.00.

## Killogen

A certain and sure remedy for Aphids or plant lice or any sucking insects.  $\frac{1}{2}$ -oz. bottle, 50c; postpaid, 60c.

## Lime-Sulphur Powdered

A convenient material to control San Jose scale and other fungous trouble, such as peach tree leaf curl and blister mites. 1 lb., 30c; 5 lbs., \$1.25; 12 $\frac{1}{2}$  lbs., \$1.50. Postpaid, 1 lb., 40c; 5 lbs., \$1.45; 12 $\frac{1}{2}$  lbs., \$1.80.

## Lime-Sulphur Solution

A concentrated liquid form easily mixed. Simply add 7 gallons of water to 1 gallon of the solution. 1-qt. can, 35c; gal., 65c; 5 gals., \$2.25. Postpaid, qt., 50c; gal., 85c.

## Magnesium Arsenate

Controls the Mexican bean beetle effectively, and will not burn the foliage. Dust Mixture for mixing with lime. 4-lb. pkg., 75c. Postpaid, 4 lbs., 95c.

Magnesium Arsenate for Spraying: 12-oz. pkg., 35c; 2-lb. pkg., 60c. Postpaid, 12 ozs., 45c; 2 lbs., 75c.

## Mologen

Eliminates moles from your lawn in two or three days. A non-poisonous, odorless dry powder that will not injure the soil or grass.  $\frac{1}{2}$  lb. can, 50c. Mailed, 60c.

## Mosquito Larvicide

Made under the Government formula, for spraying ponds and lily pools. It will not harm the vegetation or fish but kills mosquitoes, etc. 1-pt. bottle, 40c; qt., 60c. Postpaid, pt., 55c; qt., 80c.

## Nu Green

Prevents and cures and controls Brown Patch on lawns. 3-oz. tin, 25c; postpaid, 35c.

## Oil Emulsion

For dormant spray to control scale, Oil Emulsion Spray has no equal; it creeps and covers every part of the tree.

Made according to formula in U. S. Farmers Bulletin No. 933. Use 1 gallon to 20 gallons of water. To control peach tree leaf curl, add 1 lb. Bordeaux Mixture or Bluestone (put these in water first) and 1 gallon of Oil Emulsion to 20 gallons of water. Qt., 35c; gal., 65c; 5 gals., \$2.25. Postpaid, qt., 50c; gal., 85c.

## Orthodichlorbenzene

Used under buildings to keep out ants and termites. Qt., 60c; gal., \$1.25; 5 gals., \$6.00. Postpaid, qt., 75c; gal., \$1.55.

## Paradichlorbenzene

Peach tree borer control. Discovered at last a sure cure for peach tree borer. Time of application, October 1st to November 30th. It can also be used in the spring, early in March. 1 lb., 35c; 5 lbs., \$1.15; 10 lbs., \$1.90; 25 lbs., \$4.25; 50 lbs., \$8.00; 100 lbs., \$14.50; 200 lbs., \$27.00. Postpaid, 1 lb., 45c; 5 lbs., \$1.25; 10 lbs., \$2.15; 25 lbs., \$4.90.

## Paris Green

Known for its effectiveness. It must be used with care; 1 teaspoonful to 1 gallon of water. Add 2 tablespoonsfuls of lime to prevent burning.  $\frac{1}{4}$  lb., 15c; 1 lb., 50c; 5 lbs., \$2.00; 14 lbs., \$4.75. Postpaid,  $\frac{1}{4}$  lb., 25c; 1 lb., 60c; 5 lbs., \$2.20; 14 lbs., \$5.10.

## Peach Dritomic Sulphur

1 lb., 25c; 4-lb. pkg., 60c. Postpaid, 1 lb., 35c; 4 lbs., 75c.

## Pine Tar

For bruises on trees Pine Tar is very effective. 1-pt. can, 25c; postpaid, 35c.

## Potato Spray

A well balanced combined insecticide and fungicide for Potato vines. 5-lb. pkg., 85c; postpaid, \$1.05.

## Pomo-Green with Nicotine

Controls lice in addition to chewing insects and black spot, and other fungus diseases. Specially priced: 5 lbs., \$1.50; postpaid, 5 lbs., \$1.75.

## Pyrox with Nicotine

Kills both sucking and chewing insects, besides controls fungus diseases. Pyrox is especially effective on roses for diseases, lice and chewing insects. Also on Tomato to prevent blossom end rot. 17-oz. jar, 49c; 5-lb. can, \$1.75; 10-lb. can, \$3.00; 25 lbs. \$5.50. Postpaid, 1 lb., 60c; 5 lbs., \$1.95; 10 lbs., \$3.35.

## Pyrote

A combination of Pyrethrum and Rotenone Spray. Kills chewing and sucking insects at the same time. Non-poisonous. 1 oz., 35c; 6 ozs., \$1.00; pt., \$1.80; qt., \$3.20. Postpaid, 1 oz., 40c; 6 ozs., \$1.10; pt., \$1.95; qt., \$3.40.

## Red Arrow Spray

Non-poisonous; effective against lice on turnip greens, leaf-hoppers and worms. 1-oz. bottle (makes 3 gals.), 35c; 4-oz. bottle, \$1.00; 1-pt. bottle, \$2.85; 1-qt. tin, \$5.20; 1-gal. tin, \$15.00. Postpaid, 40c, \$1.10; \$3.00, \$5.40 and \$15.30.

## Rotenone Dust

Controls striped cucumber beetles, squash bugs and cabbage worms. It is non-poisonous and effective. 1 lb., 35c; 5 lbs., 90c, postpaid. 1 lb., 45c; 5 lbs., \$1.10.

## Spray Mulsion

A high grade of Oil Emulsion for dormant use. Spray Mulsion contains 96 percent of oil, therefore, requires only 1 $\frac{1}{2}$  gallons to 50 gallons of water. Use only in dormant stage on all fruit trees, shrubs, etc. Qt., 50c; gallon, 75c; 5 gals., \$3.00. Postpaid, qt., 65c; gal., \$1.00.

## Scalecide

The old reliable Scalecide. The best known dormant or delayed dormant spray for the control of scale, peach leaf curl, aphid, red mite and other insects. For fruit trees or ornamentals. Simple, effective and easy to apply. Scalecide is the complete spray. Qt., 65c; gal., \$1.55; 5 gals., \$5.50. Postpaid, qt., 80c; gal., \$1.80.

## Selocide

Kills Red Spider, 100 per cent effective, also kills the eggs, 1 qt. (makes 25 gals.), \$1.00; postpaid, \$1.20.

## Semesan

For Vegetable and Flower seed. See page 21 for information and prices.

## Semesan Bel

For treating Irish and Sweet potatoes. See page 21 for information and prices.

## Semesan, Jr.

For treating Seed Corn. See page 21 for information and prices.

## Slug-Shot

A non-poisonous powder insecticide; easily applied and not injurious to person applying it, or fruits and vegetables. Destroys Mexican bean beetles, green flies, slugs, worms. 1 lb., 25c; 5 lbs., \$1.00. Postpaid, 1 lb., 35c; 5 lbs., \$1.20.

## Slug Shot Liquid

Non-poisonous. 6-oz. bottle, \$1.00; 16-oz. bottle, \$2.00. By mail, 6 ozs., \$1.10; 16 ozs., \$2.10.

## Sulfocide

A concentrated liquid sulphur fungicide. Used on all kinds of fruits, vegetables and flowers. Convenient, economical and effective. Dilutes one gallon to two hundred gallons of water. Pt., 50c; qt., 85c; gal., \$2.25. Postpaid, pt., 60c; qt., \$1.00; gal., \$2.55.

## Sulphur, Acme Wettable-Dusting

An improved sulphur for dusting or rust on roses and other plants. 2-lb. spraying, controls mildew, black spot and carton, 25c; by mail, 40c.

## Sulphur, Commercial

Will prevent and cure mildew and red spider; should be used on all roses in the spring; apply dry. 1 lb., 10c; 5 lbs., 40c; 10 lbs., 70c. Postpaid, 1 lb., 20c; 5 lbs., 60c; 10 lbs., 95c.

## Sulphur, Mike Wettable

A trade name for the new Microscopic extra fine prepared sulphur. Mixes readily with water in combination with lime, arsenate of lead, etc. Mike sulphur is the finest and best material of its kind, as it really stays in suspension and therefore gives the needed results. 4-lb. pkg., 50c; 10-lb. bag, \$1.00. Postpaid, 4 lbs., 65c; 10 lbs., \$1.25.

# Spray Materials and Insecticides

## Superla Summer Oil

Superla Summer Oil prevents codling moth on apple trees. Should be used in connection with arsenate of lead and Black Leaf 40. Qt., 50c; gal. \$1.25; 5 gals., \$4.50. Postpaid, qt., 75c.

## Sulrote

A most effective non-poisonous dust for flowers and vegetables, contains rotenone and sulphur. Controls Mexican bean beetles, cabbage worms, etc. 1-lb. can, 40c; 5-lb. bag, \$1.00. Postpaid, 1-lb. can 50c; 5-lb. bag, \$1.20.

## Terro Ant Killer

Dead sure and quick relief from ants of all kinds. Simply pour the preparation where ants enter the house or where they travel and Terro will do the job. 25c and 50c a bottle. Postpaid, 35c, 60c.

## Tobacco Dust

Especially desirable for use against lice and sucking insects. 1 lb., 10c; 10 lbs., 60c. Postpaid, 1 lb., 20c; 10 lbs., 85c.

## Tobacco Dust Gold Leaf

Extra strength Black Leaf 40. 2 lbs., 25c; 10 lbs., 80c. Postpaid, 2 lbs., 40c; 10 lbs., \$1.05.

## Tree Tanglefoot

Used as a band on all kinds of trees, it will prevent any insects from crawling up on them. 1 lb., 60c. Postpaid, 1 lb., 70c.

Quantity Prices on Insecticides Given on Green Ink List.

## SPRAYING AND CULTIVATING ROSES

Water well in dry weather—always early in the morning. Do not wet the foliage while watering.

Keep the soil well stirred during growing season so as to have a dust mulch, to prevent drying out.

It is important to spray roses regularly with Tri-Ogen to protect against black spot and mildew as well as insect pests. Start to spray as soon as the leaves unfold in early spring. Continue spraying at regular intervals throughout the season until heavy frosts.

It has been found where TRI-GEN is sprayed regularly from early spring until the heavy frosts of autumn, the mortality of the plants from winter-kill has been reduced to a minimum.

For aphis or lice on roses, use Black Leaf 40 with fish oil soap. To one gallon of water use 2 teaspoonsfuls fish oil soap and add 1 teaspoonful Black Leaf 40. Let mixture stand 6 hours and then use. Or you can use Ever Green or Red Arrow Spray—1 oz. to 6 gallons water; also Acme Aphis Spray. This is effective against lice or aphids, thrips, etc. It contains fish oil soap.

For rose slugs, beetles and chewing insects use All Round Spray. Directions are given on all packages.

## SPRAYING EVERGREENS AND SHRUBS

For mealy bug and scale on euonymous, gardenias, cape jas- mine, use Nursery Volck combined with nicotine.

For red spider on evergreens, dust with sulphur or spray with Dendrol at rate of 1 gallon to 200 gallons of water; 1 tablespoonful to 1 gallon of water. Volck will also answer for red spider on evergreens.

For chewing insects on all trees, or vines, or shrubs, use arsenate of lead—1 tablespoonful to 1 gallon of water. 2 lbs. to 50 gallons of water, add Kayso to mixture to make it stick.

For most all diseases on shrubs, trees, vines, roses, etc., use Bordeaux mixture—4 lbs. to 50 gallons of water or 2 tablespoonsfuls to 1 gallon of water.

For mealy bug and scale on gardenias and other plants use Nursery Volck with Black Leaf 40. Directions come on containers. For caterpillars use Tree Tanglefoot.

## Spraying Grapes

First application when shoots are 6 inches long: 4 lbs. Bordeaux powder in 50 gallons of water.

Second application same as first and add 1 lb. arsenate of lead.

For leaf hopper use 1 oz. Black Leaf 40 to 6 gallons of water, adding 2 tablespoonsfuls of Kayso.

## Spraying Pecans

First application, dormant stage: 4 gallons oil emulsion to 50 gallons of water.

Second application as soon as fruit has set: 6 lbs. Bordeaux powder, 1 lb. arsenate of lead, 5 ozs. Black Leaf 40 to 100 gallons water.

For Case bearers:  $\frac{1}{2}$  gallon summer Superla Oil in 100 gallons of water; add 1 lb. arsenate of lead and 5 ozs. Black Leaf 40.

## Tree Killer Champion

For trees, shrubs and vines. Trees die quicker than the old method of deadening. Will kill Johnson grass, sprouts, etc. Gal., \$1.25; 5 gals., \$5.25; 30 gals., \$30.00, f. o. b. Memphis.

## Tree Band Paste

For controlling Codling moth on apple trees; their use prevents the moths from crawling up the trees. Apply May 1st. 8-lb. can Napto Paste, treats 500 ft. 4 in. bands, \$2.25. Postpaid, \$2.60.

## Tri-ogen

The complete protection and spray treatment on roses, etc. Kills chewing insects, aphis, plant lice, thrips, leaf hoppers, beetles, rose chafers, white fly, lace wing fly and in addition, controls diseases such as black spot, rust, mildew, blight, etc. Small Kit, makes 16 qts., \$1.50; postpaid, \$1.70. Medium Kit, makes 64 qts., \$4.00; postpaid, \$4.25. Large Kit, makes 32 gals., \$6.00; postpaid, \$6.35.

## Tree Wound Paint

When pruning heavy branches of trees, paint them with this material.  $\frac{1}{2}$  pt., 35c; pt., 50c; gal., \$2.50. By mail,  $\frac{1}{2}$  pt., 45c; pt., 65c.

## Volck Nursery

A powerful insecticide used as a spray to overcome mildew, red spider, aphis, white flies, mealy bugs, etc.  $\frac{1}{2}$  pt., 35c; qt., 75c; gal., \$2.00; 5 gals., \$6.25. Postpaid,  $\frac{1}{2}$  pt., 45c; qt., 90c; gal., \$2.25.

## Volck with Nicotine

3½-oz. bottle, 35c; by mail, 45c. Pt., \$1.00; by mail, \$1.15.

## Weed Killer (Atlacide)

The sure weed killer used by the Federal Government and recommended by Experimental Stations for killing noxious weeds and grasses such as Johnson grass, poison ivy, quack grass, etc. 1½ lbs. Atlacide makes 1 gallon of weed killer. 5-lb. pkg., \$1.50; 15-lb. drum, \$2.85; 50-lb. drum, \$5.50; 100-lb. drum, \$10.00. Postpaid, 5 lbs., \$1.70; 15 lbs., \$3.25.

## Weed Killer, Acme

Kills poison ivy, Morning Glory, obnoxious grasses, weeds, Johnson grass, and they stay killed.

Dilute 1 gallon to 50 gallons of water. Eradicates termites in buildings. Acme Weed killer is rank poison and should be used with care. Quart can, 50c; gal. can, \$1.50; f.o.b., Memphis. Not mailable.

## Zinc Sulphate

High grade 36% zinc. If your peaches, just before ripening, split or crack, which disease is known as bacterial fungi, then use 2 lbs. of zinc sulphate to each 50 gallons of any sulphur spray combination. 1 lb., 15c; 2 lbs., 25c; 5 lbs., 50c; 25 lbs., \$1.75. By mail, 1 lb., 25c; 2 lbs., 40c; 5 lbs., 70c.

Instructions for spraying fruit trees given on page 55.

## SPRAYING AND DUSTING VEGETABLES

Dust vegetables with Slug Shot or Garden Guard. These are non-poisonous and effective.

**FOR POTATOES**—Spray with calcium arsenate—1 teaspoonful to 1 gallon of water, 2 lbs., to 50 gallons water or use—Our Potato Spray—4 lbs. will make 60 gallons spray.

**FOR TOMATOES**—When in blossom spray with Bordeaux and arsenate of lead—1 lb. to 12 gallons of water; 2 tablespoonsfuls, 1 gallon of water.

This will prevent blossom end rot and worms or you can spray with Slug Shot which is non-poisonous. Acme All Round Spray is very effective.

Pyrox can be used—it's effective to control worms and blossom end rot—1 lb. to 4 gallons water.

**FOR BEANS**—To kill Mexican bean beetle, dust or spray with either Cryolite Slug Shot, Garden Guard or dust form of magnesium arsenate. You can use also the spray form of magnesium arsenate for wet application. These won't burn the foliage if used properly.

**FOR CABBAGE**—Use Slug Shot or Garden Guard. For lice spray with Black Leaf 40, 1 teaspoonful of Black Leaf 40 to 2 tablespoonsfuls of fish oil soap or use Liquid Slug Shot.

**FOR CUCUMBERS, SQUASH, CANTALOUPE**—Use Garden Guard, Acme All Round Spray, or Cryolite.

## Termites

Termites may enter wooden buildings wherever the wood is in contact with the earth. The pests (also called white ants) very often enter through cracks in the concrete foundation or build mud tunnels across the foundation. These tunnels should be carefully destroyed when found. Using a clean oil can filled with Acme Weed Killer, the cracks in the foundation should receive liberal quantities of the arsenical.

## PLANTING FRUIT TREES, ETC.

Dig opening 2 to 3 feet deep and about the same width. Place top soil in bottom of hole. Fill in and tamp well, then set tree about the same depth it grew in the nursery rows. Be careful, don't set tree too deep, otherwise it will die. Tobacco stems or dust should be sprinkled on top around peach and plum trees to keep out borers.

Set Apples 30 to 35 feet apart.

Figs, 10 feet apart in 12-ft. rows.

Apricots, Cherries, Peaches, Plums, Pears, 18 to 24 feet apart.

Grape Vines, 8 feet apart in 10-ft. rows.

Scuppernong, 16 feet apart.

Raspberries, 3 feet apart in 8-ft. rows.

Dewberries, 4 feet apart in 6-ft. rows.

Blackberries, 4 feet in 8-ft. rows.

Boysenberries, 6 feet in 8-ft. rows.

Pecans, 40 to 50 feet apart.

# R.-H. Co.'s Fertilizers

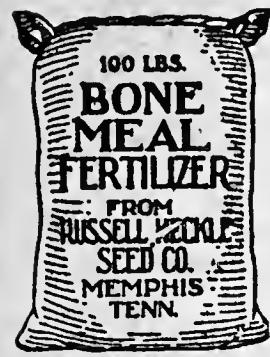
## How to Use Fertilizers

Fifty pounds of Garden Fertilizer is sufficient for a garden 40x50 feet.

For all field crops, use from 200 to 400 pounds per acre, according to the soil.

Fertilizers can always be used to good advantage by opening up the row, sprinkling thinly the fertilizer; then cover same with a little soil and then sow your seed. Or, they can be used by working them into the soil along the rows after the plant is up, care being taken not to let it come in contact with the leaves or stem of the plant. For plants that are transplanted, work the fertilizer into the soil thoroughly before transplanting, using from a teaspoonful to a small handful, according to the size and the nature of the plant.

### R.-H. Co.'s Bone Meal



Bone meal is an excellent fertilizer for all kinds of fruit trees, rose bushes, grape vines, bulbs, ferns, and other potted plants, and for grass crops. Fine for lawns.

5 lbs., 25c; 25 lbs., 90c. By mail, 5 lbs., 45c.

### Bone Meal Rose Grower

Especially Fine for Roses

4 lbs., 25c; 25 lbs., \$1.00. By mail, 4 lbs., 45c.

### Aluminum Sulphate

When added to the soil at rate of 2 lbs. to 20 square feet, gives plants vigor and increased growth. Used also to change color of blooms on Hydrangeas.

1 b., 15c; 10 lbs., 75c; 25 lbs., \$1.50; 100 lbs., \$4.50. By mail, 1 lb., 25c; 10 lbs., \$1.00.

### 'Aero' Cyanamid

Feeds the Crop — Sweetens the Soil  
NITROGEN + LIME FERTILIZER

A valuable fertilizer for all crops such as Corn, Cotton, Gardens, Grains, Grasses, Pastures, also Fruit Trees, Grape Vines, and Berry Plants.

GRANULAR "AERO" CYANAMID is a concentrated fertilizer material, containing 21% nitrogen and 70% hydrated lime. In other words, one ton of AERO Cyanamid supplies 420 pounds of nitrogen and 1,400 pounds of hydrated lime. AERO Cyanamid is ideal fertilizer for your cotton. It will increase your yields.

Aero Cyanamid is of especial interest by reason of its partial-sterilizing effect on the soil. Rightly used in large amounts, Aero Cyanamid aids in the control of weeds, nematodes, and disease organisms. After Aero Cyanamid has exercised its sterilizing action, and its lime has destroyed soil acids, its nitrogen is then yielded up to the crop.

Ask for Booklets describing this scientific fertilizer material. Prices given on our Green Ink List.

### Sheep Manure

A pure natural manure, free from all noxious weeds. Highly recommended and used largely as a fertilizer for lawns, potted plants, vegetables, flowers, etc. It furnishes a natural humus to the soil, giving immediate and lasting results. Easy to use and safe, as it does not burn.

It may be used at the rate of 20 to 50 lbs. to every 1,000 square feet.

10 lbs., 40c; 25 lbs., 65c; 50 lbs., \$1.10; 100 lbs., \$2.00. By mail, 10 lbs., 65c.

Quantity prices on Fertilizers, given on our Green Ink List.

### Semesan Seed Disinfectants

It pays to treat all seeds before you sow them. Semesan for vegetable and flower seeds; also bulbs.

New Improved Semesan Jr. for seed corn.

New Improved Semesan Bel for potatoes.

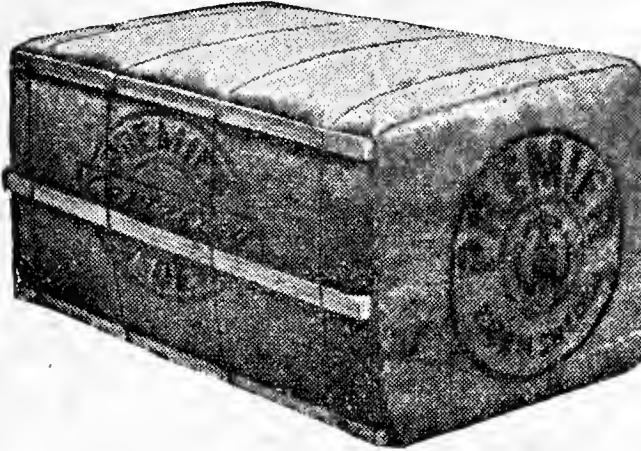
New Improved Ceresan for oats, wheat.

Two per cent Ceresan for cottonseed.

Prices and further information given on page 21.

Green Ink List Enclosed

### Peat Moss



**Add Humus to Your Lawn and Garden**  
Peat Moss has proved itself to be invaluable as a humus-adding material for the lawn and garden and more is being used each year. It is actually partially decayed moss and aquatic plants, is light brown color, entirely odorless and very easy to handle, and is absolutely free from weed seeds.

It has many uses among which the most common are: To mix with soil to make it friable or to hold water; to mulch evergreens and also bulbs and plants during the winter and as a dressing on lawns to hold moisture during dry weather.

2 bu. bag, 75c; 3 bu. bag, \$1.00; half bale, \$1.90; full bale, about 20 bu., \$2.75. Postpaid, 2 bu. bag, \$1.00.

### The Miracle Root Grower

Now Available

#### REAL ROOTS FROM CUTTINGS FASTER—SURER—CHEAPER



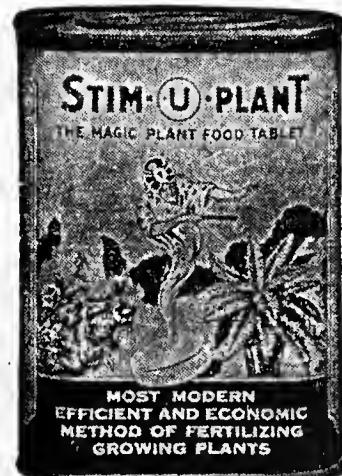
When dipped in Auxilin, difficult cuttings from plants, shrubs, trees, root easily, quickly. You get more, larger and healthier roots. Less disease. You need no special skill or equipment. Complete with graduating vial and full directions. Be sure to use distilled water or melting a small piece of ice will do. Ask for circular. 1/16 oz. bottle, 50c, treats up to 600 cuttings.

5/8 oz. bottle \$1.00, treats up to 2000 cuttings.

4-oz. bottle, \$6.00; treats up to 14,000 cuttings.

By mail, 1/16 oz., 55c; 5/8 oz., \$1.10; 4 ozs., \$6.10.

### Stim-U-Plant



Stim-U-Plant is an odorless, highly concentrated plant food, in tablet form, guaranteed chemical analysis of 11 per cent nitrogen, 12 per cent phosphoric acid, 15 per cent potash.

Pkg., 10 tablets, 10c; pkg., 30 tablets, 25c; 100 tablets, 75c. Mailed, 15c, 35c and 85c.

### Nitrate of Soda



Everyone that used Nitrate of Soda on the cotton crops was well repaid for the expense. Application of Nitrate of Soda on cabbage, lettuce, beets, etc., makes them more crisp and tender. Always remember that Nitrate of Soda must be used carefully, as it is a caustic and will burn plants if used too liberally.

It requires about 150 pounds of Nitrate of Soda to the acre.

Prices: 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c. Postpaid, 5 lbs., 45c; 10 lbs., 65c.

### Vigoro



For the Vegetable and Flower Garden, Lawn, Shrubbery and Trees. A highly concentrated odorless plant food made by Swift & Co. Produces wonderful results when making new lawns or top dressing old ones. Vigoro produces more and more brilliant flowers, full foliated shrubbery, delicious vegetables and leafy trees. It is the ideal plant food for whatever you grow.

1-lb. pkg., 10c; 5-lb. pkg., 45c; 10-lb. pkg., 85c; 25-lb. bag, \$1.50; 50-lb. bag, \$2.50; 100 lbs., \$4.00. Postpaid, 1-lb. pkg., 18c; 5-lb. pkg., 65c; 10 lbs., \$1.10.

### Standard Fertilizers

	Nit.	Phos.	Pot
Acid Phosphate .....	16%		
Acid Phosphate .....	20%		
Bone Meal steamed ....	22%		
Bone Meal Rose grower 3.75%	22%		
Corn & Cotton grower 4%	8%		4%
Big Crop Truck Grower 5%	15%		5%
Tomato Grower .....	8%		6%
Vegetable Fertilizer .. 4%	8%		4%
Vegetable Fertilizer .. 3%	8%		6%
Kainit Potash Salts ...	20%		
Muriate of Potash ....	48%		

See Green Ink List for Prices.

### Lawnette Fertilizer and Seed Distributor

Spreads fertilizer, lime or seeds, evenly and accurately. Saves time, worry and labor. Ideal for sowing on windy days, especially desirable on lawns since it puts down the fertilizer properly and evenly. It is equipped with gauge, etc., for controlling proper quantity to use.

Easy running, sturdy machines that will last for years if properly taken care of. Made in 2 sizes.

No. 15—14" wide .....

\$2.90

No. 215—24" wide .....

\$11.50



### Garden Lime

Pulverized, fine, especially good for use on sour soil and where ground worms frequent. It purifies and sweetens soils.

10-lb. bag, 25c; 40-lb. bag, 40c. By mail, 10-lb. bag, 50c.

# Hudson Spray Pumps



## Hudson Perfection Sprayer

Open top. Pump and top assembly lock securely by means of the four point contact of the Hudson Eccentric-type lock. Tank is either galvanized or copper sheet, capacity full 4 gallons. Discharge equipment includes 27 inches of high pressure spray hose; all-brass shut-off valve, 24-inch brass extension.

No. 210G. Perfection. Galvanized. 4 gallon capacity .... \$ 6.00  
No. 210B. Perfection. Copper. 4 gallon capacity ..... 10.00  
Postage, 35c each extra.



## Hudson Junior Sprayer

The Hudson Junior Sprayer has a capacity of two and one-half gallons. Open Top. Tank may be had in either galvanized or copper. Fitted with 24 inches discharge hose. 21-inch brass extension rod and brass disc type nozzle.

No. 240G. Junior. Galvanized, \$4.25  
No. 240B. Junior. Copper Tank, \$7.00  
Postpaid \$4.50  
Postpaid 7.25



## Hudson Climax Sprayer

The Climax Compressed Air Tank Sprayer is a very fine pattern in the low priced field. Has the new Open Top. Furnished in galvanized tank. Capacity about 3½ gallons. Equipped with 24 inches of discharge hose, 2-ft. brass extension rod, and brass disc type adjustable nozzle.

No. 235G. Climax. Galvanized, \$4.35. .... Postpaid, \$4.60

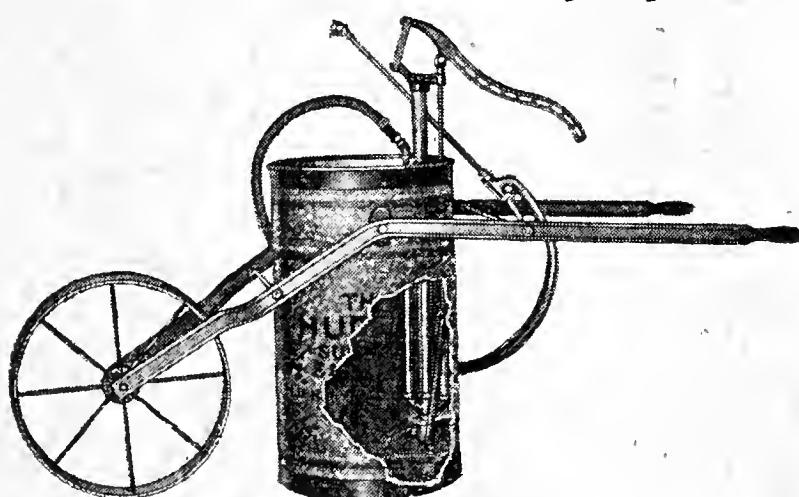


## Hudson Thrifty Sprayer

The Thrifty is of convenient size for work around the home, flower garden, truck garden, and similar places. Has Nu-eéz Funnel Top equipment. Tank galvanized iron. Capacity about 2 gallons. Cam lock, operated by half turn of malleable pump handle. Fitted with 24 inches of discharge hose. 21-inch curved brass extension rod and brass disc nozzle.

No. 120G. Thrifty. Galvanized, \$3.00. .... Postpaid, \$3.25

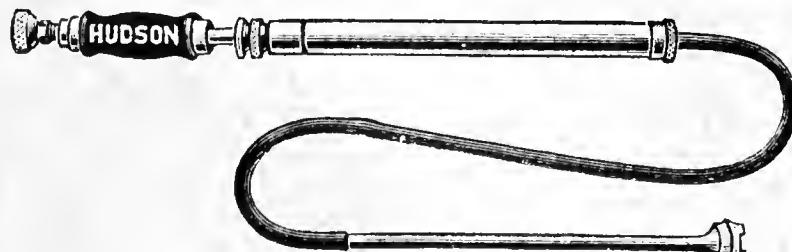
## Hudson Sunshine Sprayer



Adapted for small orchards, vineyards, truck gardens, berry bushes, as well as for use by florists, nurserymen and greenhouses. Handles insecticides, disinfectants, whitewash, cold water paints and similar preparations. Fitted with 5 feet of discharge hose, 2-foot iron extension rod, brass angle nozzle and Perfection shut-off valve.

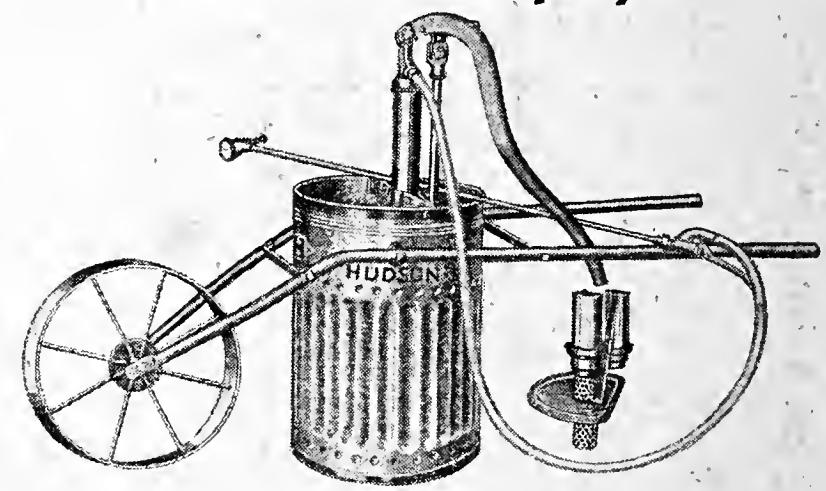
No. 36S Sunshine Sprayer. 12½ gal. as shown. Price, \$12.25.

## Hudson Trombone Sprayer



Double acting, high pressure spray pump. Maintains steady discharge with ease. Cylinder is 19½ inches long, made of seamless brass tubing. Air chamber is 25½ inches long of same material. Fitted with 3 feet of special spray hose, intake pipe and strainer. Fog nozzle with various discs standard equipment.

No. 133. Trombone Sprayer. Price \$3.75. Postpaid, \$3.95.



## Hudson Ideal Sprayer

A heavy duty, portable outfit for orchard, vineyard, truck garden, poultry house, etc. Tank heavy gauge galvanized sheet steel. Capacity 18 gallons. Fitted with 6-foot discharge hose and 4-foot iron extension rod and brass angle spray nozzle. Perfection shut-off valve.

No. 34S. Ideal Sprayer. Galvanized tank, 18 gal. Weight 80 lbs. Price, \$19.00. ....

## Extension Rods

No. 172. Rod 2 ft., iron. Each	\$0.45
No. 172B. Rod 2 ft., brass. Each	.60
No. 174. Rod 4 ft., iron. Each	.65
No. 174B. Rod 4 ft., brass. Each	1.00
No. 2418. Rod 34 in., brass. Each	.75

## Bamboo Spray Pole



Brass lined, with one-piece lining locked to poles at each end. Fitted with adjustable brass drip shield and stop cock. Recommended for all work where a longer rod than 4 feet is required.

No. 42. Spray Pole. 8 ft., with stop cock. Each, \$4.00.

No. 44. Spray Pole. 10 ft., with stop cock. Each, \$4.25.

Quantity prices on all insecticides are given on our Green Ink List enclosed.

## Myers Kwick Fill Compressed Air Sprayers



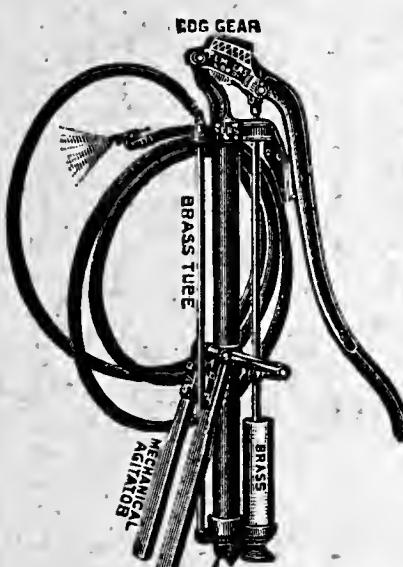
Myers No. 2242

A quality product, something you can depend on. The special features are concave top form which acts as a funnel, no time lost in filling. It has a 1 1/4-inch brass tube air pump which is quickly removable. The removable discharge tube and hose connection permits a thorough drainage and cleaning of the tank, which adds many years of service. The tank is extra heavy galvanized metal. Made in two sizes.

No. 2240 Myers Kwick Fill. 2 1/2-gallon galvanized tank. Price, \$4.50; postpaid, \$4.75.

No. 2242 Myers Kwick Fill. 4-gallon galvanized tank. Price, \$5.10; postpaid, \$5.45.

## Myers Barrel Sprayer



Myers No. R305B

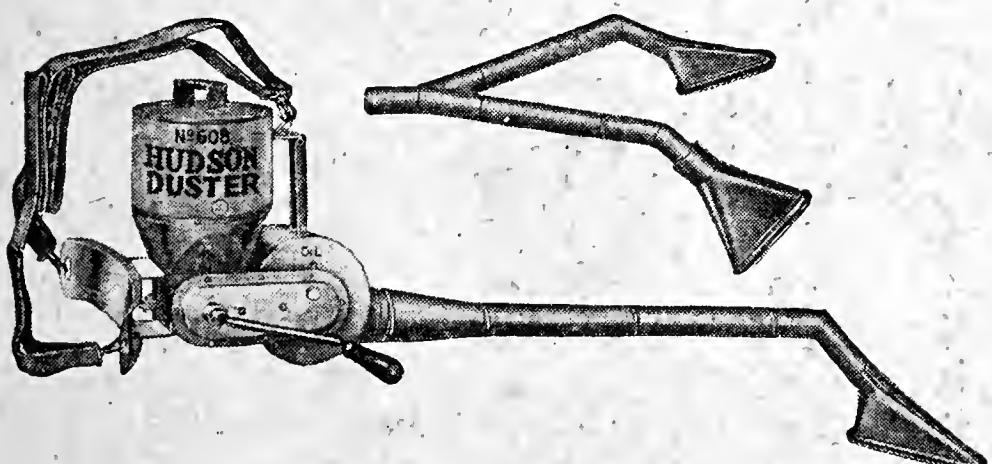
MYERS No. R305B. Attaches to the side of an open barrel. Equipped with cog gear handle, jet and mechanical agitators, complete with 15 feet of 1/2-in., 5-ply discharge hose and Myers Graduating Vermorel Nozzle. Price, less barrel, \$13.25.

MYERS No. R318B. Attaches to top of closed barrel. Has bronze ball valves and brass seats. Plunger is self expanding and the cylinder and pipes are all brass. Price, with one lead of 15 feet of 1/2-inch, 5-ply discharge hose, graduating Vermorel nozzle and mechanical agitator. Price, \$14.25.

## Myers O.K. Barrel Pump

No. R308B. Air chamber, 2 1/2 inches, will carry 200 lbs. pressure. With one lead of 15 feet, 7-ply, 3/8-inch hose and nozzle. Price, less barrel, \$22.75.

No. R308C. The same with 2 leads of spray hose and two nozzles. Price, less barrels, \$26.50.

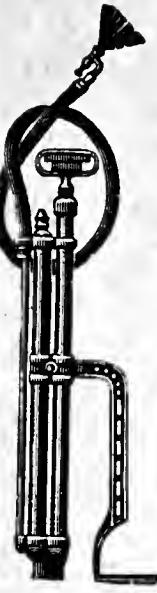


No. 608 Roto-Power Crank Duster

For truck gardens, vineyards, small orchards, etc., as well as clubs, city parks, cemeteries and similar places. Discharge equipment; two nozzles, two elbows, a wye connection and four 15-inch tubes. Feed regulator quickly adjusted for any desired volume of dust. No. 608. Crank Duster. Price, \$13.50; postpaid, \$13.90.



Myers No. R324



Myers No. 825



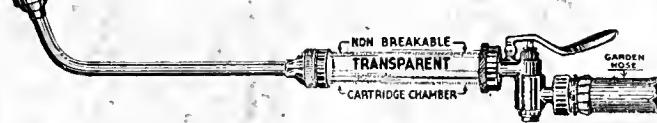
## Myers Portable Sprayer

No. R336 1/2B. Capacity, 12 1/2 gallons; tank made of heavy galvanized iron, equipped with portable wheelbarrow frame; has agitator, with 15-ft. hose connection, Vermorel nozzle, and 8-ft. pipe extension. Price, \$22.00.

## Insect-O-Gun



## Simplex Garden Hose Sprayer



Attach to any garden hose, then slip the insecticide cartridge in the chamber and you can spray all plants rapidly; effective and easy. The cartridge chamber is transparent so the operator can readily see when the insecticide cartridge has been used up. This outfit comes complete with extension pipe with 3 insecticide cartridges only \$4.00; postpaid, \$4.25.

### Extra Cartridges:

Nicostick, each 35c; 3 for \$1.00.

Sulfostick, each, 30c; 4 for \$1.10.

Pyrethrum Rotenone, 35c each; 3 for \$1.00.

By mail, each 10c extra.

## The Arnold Garden Hose Sprayer

Price with 4 kinds of Cartridges only  
\$3.50; postpaid, \$3.75.

### EXTRA CARTRIDGES

Arsenate of Lead, Nicotine, Pyrethrum with Rotenone, Bordeaux Mixture, Colloidal Sulphur, Fertilizer Cartridge. Each 35c; 6 for \$2.00. By mail, 40c each; 6 for \$2.20.

A new device for spraying insecticides of all kinds. Attaches to any garden or lawn hose connection. Simply place the proper quantity of insecticide in the container and attach to the garden hose.

Junior Home Garden Size, \$3.75; postpaid, \$3.95.

Senior Large Garden Size, \$4.75; postpaid, \$5.00.

Heavy Duty Estate Size, \$6.00; postpaid, \$6.25.

## Myers Knapsack Pump



No. 1330 Myers New Galvanized Tank Knapsack Spray Pump. Fitted with 3/8-inch hose, lever shut-off cock, 18-inch brass extension pipe with 45 degree bend and Bordeaux nozzle. Price, \$12.25; by mail, \$12.60.

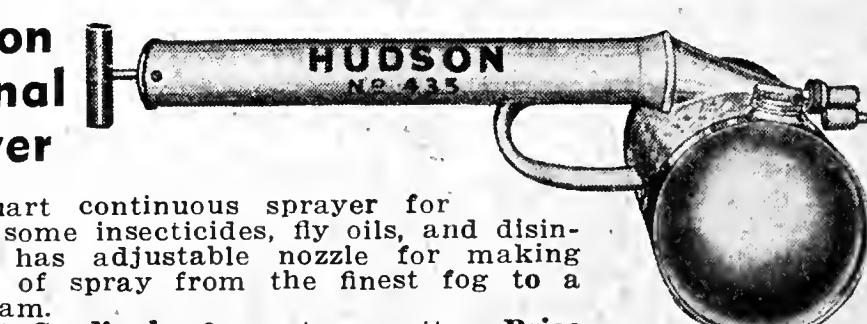
No. 1331. Brass tank, \$17.25; by mail, \$17.60.

## Hudson Cardinal Sprayer

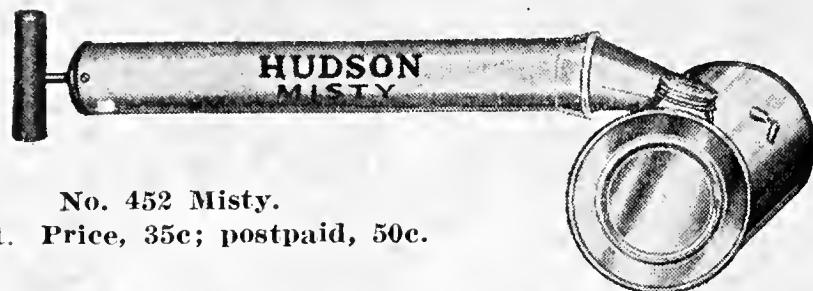
A 3-quart continuous sprayer for handling some insecticides, fly oils, and disinfectants; has adjustable nozzle for making any type of spray from the finest fog to a solid stream.

No. 435 Cardinal. 3-quart capacity. Price \$1.25; postpaid, \$1.50.

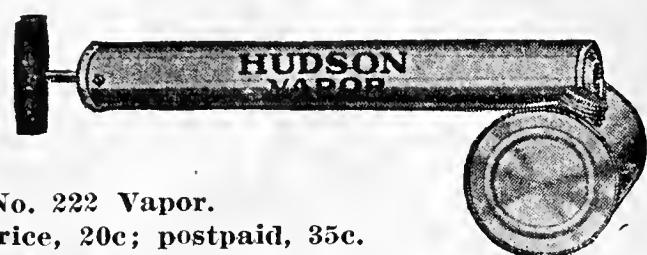
No. 437 Capital. 3-quart capacity with automatic shut-off. Price, \$2.00; postpaid, \$2.25.



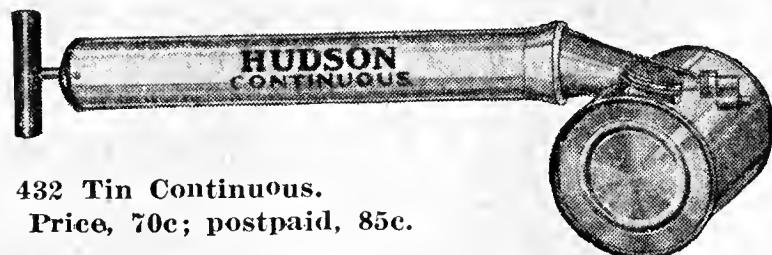
# Hand Sprayers, Nozzles, and Spray Accessories



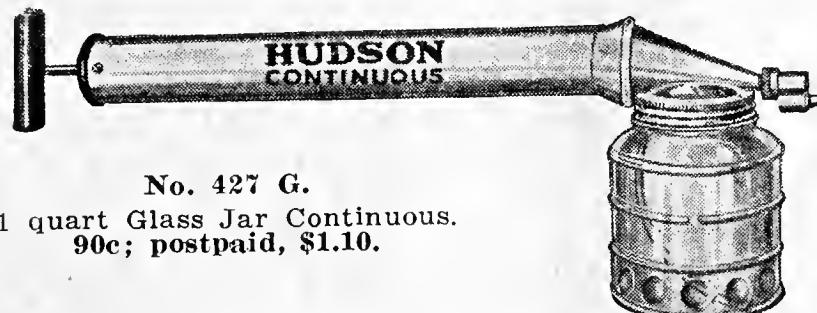
No. 452 Misty.  
1 quart. Price, 35c; postpaid, 50c.



No. 222 Vapor.  
3/4 pint. Price, 20c; postpaid, 35c.

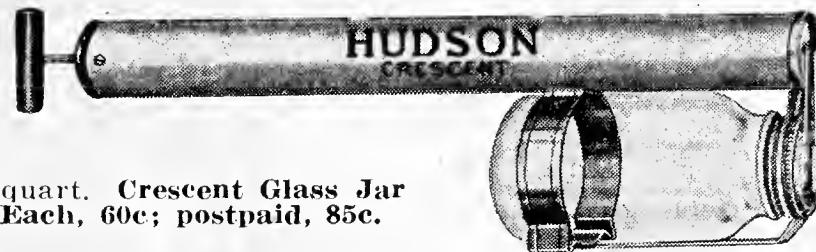


No. 432 Tin Continuous.  
1 quart. Price, 70c; postpaid, 85c.

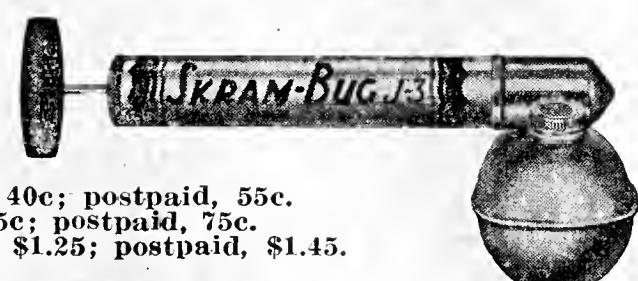


No. 427 G.  
1 quart Glass Jar Continuous.  
90c; postpaid, \$1.10.

No. G3 1/2. Glass Jar Sprayer. 4 1/2 ounces. 20c; postpaid, 35c.



No. 430. 1 quart. Crescent Glass Jar Sprayer. Each, 60c; postpaid, 85c.



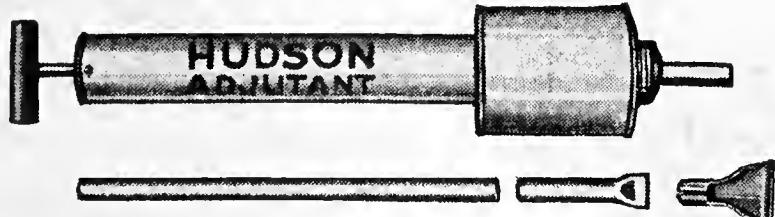
3/4 pint. Continuous. 40c; postpaid, 55c.  
1 pint. Continuous, 55c; postpaid, 75c.  
2 quart. Continuous. \$1.25; postpaid, \$1.45.



No. 651. Corporal Duster. Price, 15c; postpaid, 25c.



No. 660. Signal Duster. Price, 25c; postpaid, 35c.



**Hudson Adjutant Duster**  
Similar in construction and shape to the No. 665 Major Duster excepting it is a little smaller and has only one extension pipe.  
No. 664. Adjutant Duster. Price 50c; postpaid, 60c.

## Hudson Patrol Duster

An effective pattern for truck gardens, field crops, etc. The two 12-inch extensions and two nozzles permit the operator to reach all parts of the plant. Positive force feed construction absolutely prevents clogging.

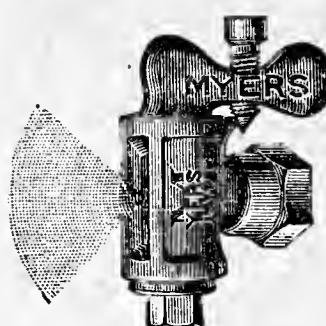
No. 612. Patrol Duster. Price, 90c; postpaid, \$1.10.



No. 1564 Vermorel Spray Nozzle. Each, 75c; postpaid, 85c.



Myers  
No. 1290 Nozzle.  
Each, 65c.  
Postpaid, 75c.



No. 71. Bordeaux Nozzle.  
Price, \$1.00; postpaid, \$1.10.



Myers  
No. 1559 Angle Nozzle.  
Each, 75c.  
Postpaid, 85c.



No. 155. Hudson Adjustable Aphis Nozzle. Each, \$1.20; postpaid, \$1.30.



No. 1283 Shut-Off Cock. Price, \$1.10; postpaid, \$1.20.

## Spray Hose Connections



Male  
For 3/8- or 1/2-inch hose. 30c;  
postpaid, 40c.



Female  
For 3/8- or 1/2-inch hose. 30c;  
postpaid, 40c.

## No. 145 Angle Spray Rod



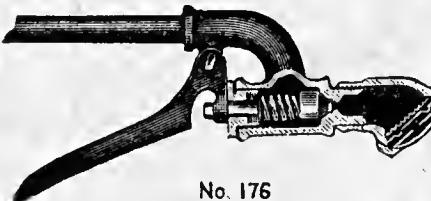
Made entirely of brass, 5 1/2 feet long, weighs only 4 1/2 pounds. Automatic shut-off. Throws spray 30 feet from the nozzle. Ask for circulars. Price, each, \$7.45, f. o. b. Memphis.



## Spray Hose

Built to safely handle working pressure of 200 pounds, and to meet a bursting pressure test of 850 pounds. Furnished in 3/8- and 1/2-inch, in any length up to 500 feet.  
3/8-inch Spray Hose. Per foot ..... 12c; 25 ft., \$2.50  
1/2-inch Spray Hose. Per foot ..... 16c; 25 ft., \$3.50  
Postage 5c per foot extra.

## Hudson Nozzles



No. 176



No. 168



No. 166

No. 176. Perfection Shut-off Nozzle. Each ..... \$1.50  
No. 166 and 168 Fog Nozzles. Each ..... 50  
By mail 10c each extra.

## Miscellaneous Sprayer Repairs

Barrel Spray Pump Leather Washers.	Each	\$0.15
Bucket Spray Pump Leather Washers.	Each	.10
Hand Spray Pump Leather Washers.	Each	.10
Compressed Air Spray Pump Leather Washers.	Each	.10
Rubber Gaskets for Compressed Air Sprayer.	Each	.10
No. 1279 Y Connection.	Each	.60
No. 1380 45-degree Bend Connection.	Each	.25
No. 1381 45-degree Double Bend.	Each	.40
Hose Clamps. 3/8- or 1/2 inch	Postage 5c each extra.	.05

# Garden Tools, Flower Pots, etc.

## Flower Pots, Earthen

	Doz.	100
2 inch	\$.20	\$1.20
2 1/4 inch	.25	1.35
3 inch	.30	2.00
4 inch	.35	2.50
5 inch	\$.07	\$.65
6 inch	.10	.95
7 inch	.15	1.60
8 inch	.20	2.25
10 inch	.40	4.25
12 inch	.75	8.50

Azalea or 3/4 size pots in sizes 6 inch, 7 inch, 8 inch and 10 inch.

Prices same as standard pots.



## Flower Pot Saucers

	Doz.	100
6 inch	\$.50	
7 inch	.80	
8 inch	1.50	
10 inch	2.15	

## Flower Pots, Paper

	100	1000	100	1000	By Mail
2 1/4 inch	\$.45	\$3.25	\$.55	\$3.60	
2 1/2 inch	.50	3.35	.60	3.75	
3 inch	.55	3.90	.65	4.25	
4 inch	.75	5.90	.90	6.30	

## Baskets

	Each	Doz.
1/2 bu. wire bale, picking	\$.20	\$2.00
1 bu. side handle, stave	.10	1.00

## Broom Leaf Rake

No. FBR22. Made of spring wire. 95c.

## Garden Gloves

Made of imported leather processed to make it pliable as kid and washable. An ideal glove for men and women gardeners. Will outwear six cotton gloves. Sizes for women: "Small," "Medium," "Large"—for men: "Medium," and "Large." Price, 70c per pair. By mail, 80c.

## Grass Shears



For trimming edges of flower beds. No. 1. Polished Grasnip. 85c; mail, \$1.00. No. 4. Polished Grasnip. 55c; mail, 70c. No. 3. Polished Grasnip. 65c; mail, 80c. No. V-2. Spring blade. 50c; mail, 65c. No. 90. Spring blade. 30c; mail, 45c.

## Hand Corn Planters



Especially desirable for replanting corn, etc. Both styles, either the one-hand or two-hand planters are accurate, strong and durable. They can be set to plant two to six grains in a place as required; simple and easy to operate.

No. 306. Two-hand Planter. \$1.15; postpaid, \$1.45.

No. 311. One-hand Planter. \$1.85; postpaid, \$2.15.

## Grass Hook Sickles

No. 3. Offset Handle. 50c; mail, 65c. No. 12. Scythe style. 60c; mailed, 75c. No. 6. 43-inch handle. Each, 95c; can't mail.

## Mole Traps

Little Giant. Each, \$1.00; mailed, \$1.25.

Reddick. Each, \$1.25; mailed, \$1.45.

## Plant Stakes

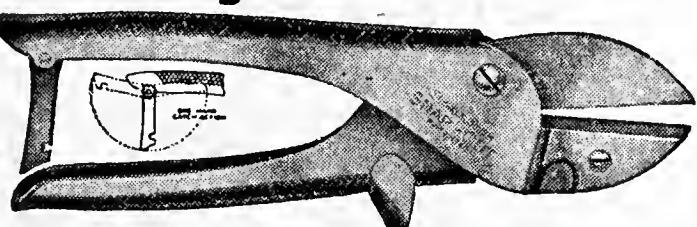
	Doz.	100
4-ft. Green Bamboo	\$.15	.75
6-ft. Natural Cane	.50	3.50

## Pot and Plant Labels

	100	1000
4-in. Wooden Pot Label	\$.35	\$1.75
5-in. Wooden Pot Label	.45	2.20
8-in. Wooden Pot Label	.50	2.75
10-in. Wooden Pot Label	.60	4.50
3 1/2-in. Wired Tree Labels	.35	1.75

By mail add 15c per 100 and 50c per 1000.

## Pruning Shears and Tools



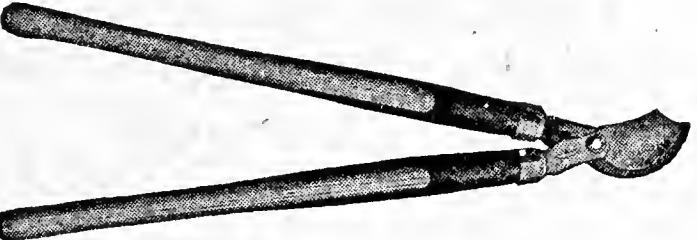
No. 119. Snap cut. Each, \$1.75; postpaid, \$1.95.

No. 118. Snap cut. Each, \$1.25; postpaid, \$1.40.

No. 149. Snap cut. Long handle for trees and heavy work. \$2.85; postpaid, \$3.10.

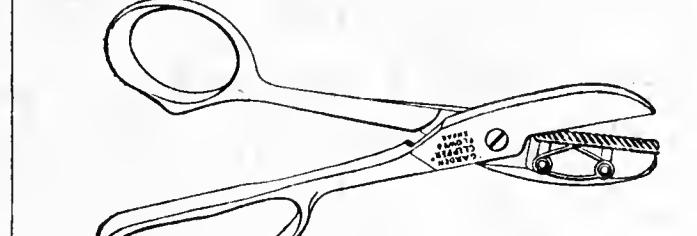
No. R10. Hand Shears. 8 inch. Each, 50c; postpaid, 65c.

No. V-1409. Hand Shears. 9 inch. Each, 95c; postpaid, \$1.15.



No. V20. Long handle. Each, \$1.75; postpaid, \$2.00.

No. V40. Long handle. Each, \$2.50; postpaid, \$2.80.



No. 1248. Flower Shears. Each, 59c; postpaid, 70c.

## Pruning Saw

No. 514. 20-in. Curved Saw. \$1.25; mailed, \$1.45.

## Tree Pruners

No. 1. Telephone less pole. \$1.25; mailed, \$1.45.

No. 1312. Tip Top in three 4-ft. sections. \$2.50. Not mailable.

## Raffia

For tying or bunching vegetables or plants, also used when budding. Small hanks, per lb., 35c; 10 lbs., \$2.75; 25 lbs., \$5.50. By mail, 1 lb., 45c; 10 lbs., \$3.00; 25 lbs., \$5.90.

## Hedge Shears



No. 600. 6 inch. 90c; mailed, \$1.10. No. 800. 8 inch. \$1.45; mailed, \$1.65. No. 900. 9 inch. \$1.70; mailed, \$1.90. No. 801. 8 inch, serrated. \$1.60; mailed, \$1.80.

## Tomato or Peach Baskets

2 qt. Doz., 15c; 100, \$1.10. By mail, doz., 25c; 100, \$1.50. 1000, \$10.00; cannot mail.

3 qt. Doz., 20c; 100, \$1.20. By mail, doz., 30c; 100, \$1.65; 1000, \$11.00. Cannot mail.

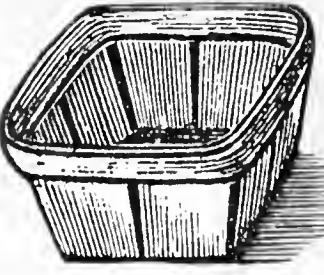
## Strawberry Boxes

1 pt. 100, 65c; postpaid, 100, 95c.

1 pt. 1000, \$5.50; cannot mail.

1 qt. 100, 75c; postpaid, \$1.15.

1 qt. 1000, \$6.00; cannot mail.



## Seed and Grain Cleaner

### Clipper Cleaner

These have vertical air blast cleaners, fans, and separators. Also cleans all kind of seeds and grains. No farmer should be without one. Clean your seed before you sell or plant them.

No. 1B. Hand Power Cleaner. Ask price.

No. 2B. Semi-Power Cleaner. Ask price.

Let us mail you a circular giving you full specifications on Clipper Cleaners.

## Twines

2-ply Jute 1/2-lb. balls. Each, 10c; 3 for 25c.

2-ply Jute 25-lb. coil, 100 ends. Per coil, \$3.75.

6-ply cotton, 2 1/2-oz. ball. 5-lb. pkg. for \$1.20.

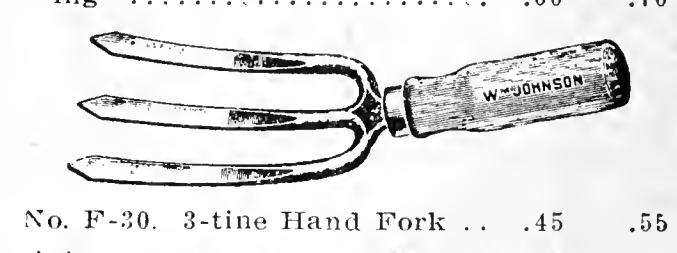
6-ply cotton 2 1/2-lb. cone. 55c.

Sisal Binder Twine. 5-lb. ball for 60c.

## Trowels and Hand Forks



	Each	Mail
No. T-4. Garden Trowels	\$.10	\$.20
No. T-5. Transplanting Trowel	.10	.20
No. T10. Garden Trowel, heavy	.75	.85
No. T-15. Garden Trowel, long handle	.35	.45
No. T-20. Garden Trowel	.25	.35
No. 7. Aluminum Trowel	.55	.65
No. 8. Aluminum Transplanting	.60	.70



No. F-30. 3-tine Hand Fork .45 .55

## Miscellaneous Hand Tools

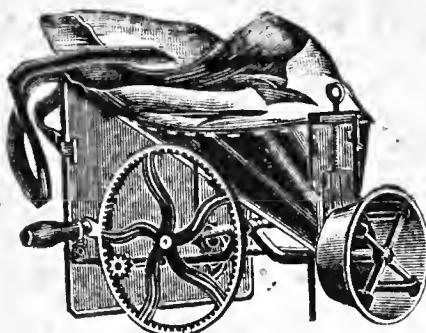
No. 219. Asparagus Knife.	Each, 35c; by mail, 45c.
No. 0. Asparagus Knife.	Each, 35c; by mail, 45c.
No. 12. Corn Knife.	Each, 55c; by mail, 65c.
No. 7. Cane Knife.	Each, 35c; by mail, 45c.
No. 223. Dandelion Weeder.	Each, 50c; by mail, 60c.
No. 2219. Garden Dibble.	Each, 50c; by mail, 60c.
No. 90. Sowrite Hand Seeder.	Each, 45c; by mail, 55c.
No. 10. Weather-proof Pencil.	Each, 10c; by mail, 15c.

## Weed Cutters

No. 12. Iron Frame Cutter. Each, 50c. Lively Wood Handle Cutter. Each, 90c. Village Wood Handle

# R.-H. Co.'s Seed Sowers

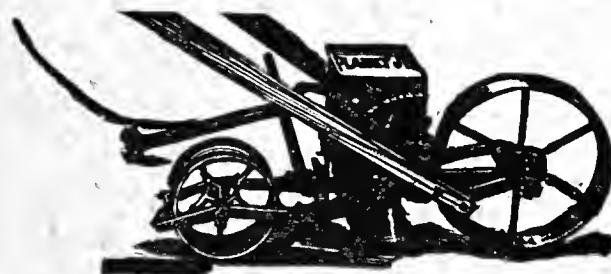
## Cahoon Broadcast Seed Sower



One of the best seeders manufactured, and sows all kinds of grain, Clover seeds, Lespedeza, etc. Very strong and durable. Each, \$4.40; by parcel post, \$4.65.



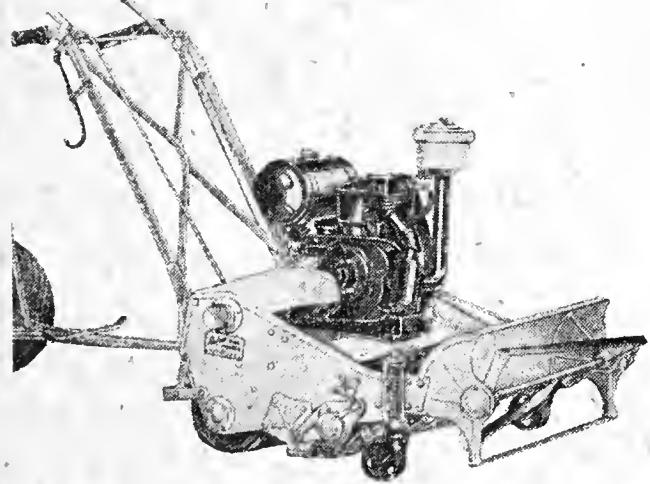
Will sow Timothy, Clover, Lespedeza, Oats, Rye, Wheat, Millet, Grass Seeds, Peas, Sorghums, etc. Works perfectly; has an agitating feed plate which insures a uniform flow of seed. Each, \$2.50; by parcel post, \$2.70.



No. 4D Planet Jr. Drill Seeder

## Planet Jr. No. 4D Seeder

Plants small seed in a continuous row or in hills 4-6 or 8 inches apart, or large seeds 12 to 24 inches apart. It is accurate and dependable. Weight, 40 lbs. Price \$14.75. Write for catalog.



## Cooper Power Lawn Mowers

Here you have real lawn mowing at low cost. A twist of the wrist controls the power, engineered and built like a motor car. The Cooper Power Mowers are designed by experts, they are efficient and satisfactory in every way. All are equipped with Briggs & Stratton, 4 cycle valve in head automotive type motors with easily adjusted ball-bearing high quality cutting unit. Ask for circulars giving full specifications on the following sizes. Price f.o.b. Memphis.

18-in. Cooper Clipper with Rope starter. \$76.00 each.

18-in. Cooper Clipper with Foot starter. Each, \$80.00.

20-in. Cooper Royal Mower. \$190.00 each.

## Combination Fertilizer and Feed Distributor



This outfit will broadcast all kinds of seeds such as Lespedeza, lawn grass, clovers, sudan grass, millet, oats, etc., as well as distribute evenly fertilizer, such as Vigoro, bone meal, sheep manures, nitrate of soda, cyanamid, etc. It can be easily regulated to put out any desired quantity. Each, \$3.50; postpaid, \$3.70.



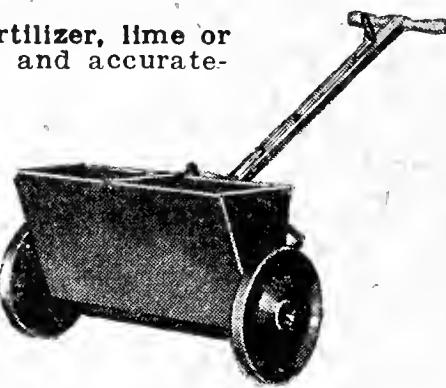
## Thompson's Royal Wheelbarrow Seeders

The fastest grass seeder on the market. Easy running and light weight, complete, only 50 pounds. The seed is never bunched. Seed is sown close to ground, hence the wind does not blow it. No. 13 Royal—Double Hopper. 14 feet in length, having an extra deep hopper, is the best for sowing Lespedeza seed in addition to sowing Alfalfa, Clovers, Millet, Timothy, Grasses, etc. With Chain Feed. Each, \$14.50.

## Lawnette Fertilizer and Seed Distributor

Spreads fertilizer, lime or seeds, evenly and accurately. Saves time, worry and labor, ideal for sowing on windy days, especially desirable on lawns since it puts down the fertilizer properly and evenly.

No. 15—14" wide	.....	\$ 2.90
No. 215—24" wide	.....	11.50



## Spike Tamper SPIKING THE LAWN

AN INDESTRUCTIBLE ALL METAL TOOL MADE OF QUALITY MATERIALS. WEIGHT 1 1/2 POUNDS. OVERALL LENGTH 4 FT. PLATE 9 INCHES SQUARE. SPIKES 1 1/2 INCHES LONG.



Hard spots or terraces which turn brown should be spiked and watered. They will quickly revive and turn green.

Stiff soil to which a little sand should be added may well be spiked, sanded and watered.

If you want a real lawn and wish to keep the grass from dying, use a spike tamper. We guarantee them. Ask for circulars. Price, \$4.25 each.

## Thompson No. 101 Universal Distributor



An all purpose distributor, broadcasts uniformly at any rate application required. Hopper capacity 1 1/2 bushels of seed or one 100 lb. bag of fertilizer, spreading width 10 feet.

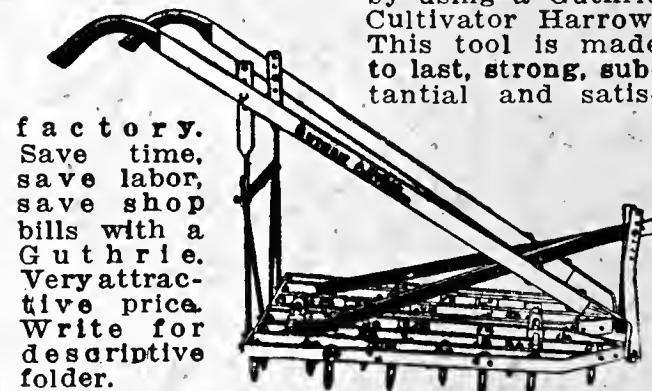
The machine has a positive shutoff slide, Hopper is mounted underneath handles so that the wind does not affect uniform distribution. Weight of distributor 90 lbs. It is sturdy and well built with a substantial 32 inch steel wheel having a 2 1/2 inch run so it operates well on tilled soil or turf. Price 10 ft. Thompson No. 101, Universal Distributor, \$24.00.

## The Horn Seed Sower



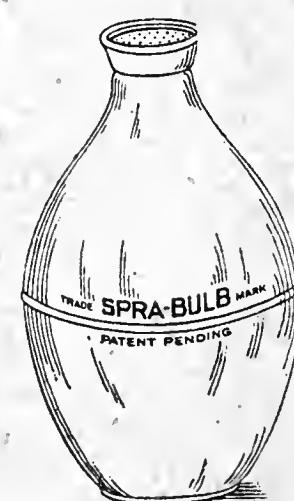
A splendid little tool. Will sow any fine seed like Clover, Lespedeza, Timothy, Alfalfa, and Grasses. Each, 95c; by parcel post, \$1.05.

## GUTHRIE HARROW CULTIVATOR



Price, \$12.25 each.

## Centro Rubber Hand Powder and Spray Bulb



These can be used either for dusting, sprinkling or spraying. They are very heavy and durable. 8-oz. Spraying or Dusting. Each, 55c. 8-oz. Sprinkling or Dusting. Each, 65c. 14-oz. Sprinkling or Dusting. Each, \$1.00. By mail, 10c each extra.

## Dupor Respirator

A mechanical filter type respirator, approved for protection against inhaling fine dust, etc., approved by the United States Bureau of Mines. Price, each, \$2.25; postpaid, \$2.35.

# R.-H. Co.'s Dog Foods

It pays to use our prepared Dog Foods as your dogs will keep in better condition and health. We are headquarters for the best Dog Foods and sell at factory prices, as we are carlot buyers. Our stocks are always fresh and dependable, all manufactured on a scientific, balanced ration basis.



## Miller's Dog Ration

Miller's Dog Ration is one of the best balanced dog foods in the United States. Contains cereals, meat, bone, yeast and cod liver oil. It is fed to hunting dogs, police dogs, fox terriers, bulldogs and all other kinds—it is also fine for puppies. It is cooked and ready to use when received. 3 lbs., 25c; 10 lbs., 65c. Postpaid, 3 lbs., 40c; 10 lbs., 90c.

## Miller's Dog Biscuit

Miller's Biscuits—besides providing the gnawing foods all dogs need for clean, strong teeth, healthy gums, and good digestion—supply food for all of your dog's body so that no organs age faster than others through lack of correct nourishment. Help your dog live longer. Feed Miller's Biscuits 4 or 5 mornings a week.

1 lb., 10c; 10 lbs., 90c. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.



## Miller's Kibbled Biscuit

Miller's Kibbled Dog Biscuit is the same as whole only in broken form, which makes it convenient for mixing with vegetables, meat, fish, soups, broths, etc.

1 lb., 10c; 10 lbs., 90c. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.



## Miller's Puppy Meal

Miller's Puppy Meal is especially adapted for the tender digestive organs of puppies. 1 lb., 10c; 10 lbs., 90c. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

## Miller's Meatis

The Cube form of Miller's Dog & Puppy Ration. A most convenient method of feeding dogs, and do they like it! No other cube form of dog feed can compare with Miller's Meatis. The animal is the judge; he knows best what he likes.

All in cube form, a most convenient food to have on hand, ready instantly for feeding the pets. 3 lbs., 25c; by mail, 40c. 10 lbs., 70c; by mail, 95c.

Quantity prices on Miller's Dog Foods are given on Green Ink List enclosed.

## Champion North Star Food

A complete and balanced diet for dogs and puppies of any breed. North Star Kibbled, North Star Whole Biscuit, North Star Puppy Meal, North Star Puppy Biscuit. 1 lb., 10c; 10 lbs., 90c; 25 lbs., \$2.00; 100 lbs., \$7.50. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

## Chappel's Ken-L-Worth

A supreme dog food in kibbled form. Your dog will thrive on Ken-L-Worth. It is used now by all large kennels and dog owners. 1 lb., 10c; 10 lbs., 90c; 25 lbs., \$2.00; 100 lbs., \$7.50. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

## Old Trusty Dog Foods

**OLD TRUSTY KIBBLED FOOD.** A crunchy coarse ground biscuit which is evenly balanced and highly nourishing. It is a foundation food for all breeds and sizes of dogs at all times. 1 lb., 10c; 10 lbs., 85c. Postpaid, 1 lb., 20c; 10 lbs., \$1.10.

**OLD TRUSTY TIT-BITS.** A golden granulated food of the highest order. An ideal food for bitches in whelp, toy dogs, also for dogs off their feed. 1 lb., 10c; 10 lbs., 90c.

Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

**OLD TRUSTY BONE-SHAPED BISCUIT.** Baked in shape of a bone, as its name implies. This crisp, crunchy biscuit makes an ideal morning meal for the dog, and it is a great bone and muscle builder, too. With its rich content of spring-wheat flour, beef and bone meal, yeast and milk, it is 100 per cent sound, nourishing food, and the dogs love to chew it and worry it as they do a bone. It is ideal for regular feeding, especially during the months when fresh vegetables are at a premium. 1 lb., 10c; 10 lbs., 90c. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

**OLD TRUSTY SQUARES.** A small tender biscuit, better than whole wheat because it contains more mineral salts and vitamins. 1 lb., 10c; 10 lbs., 90c.

Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

**OLD TRUSTY CHARCOAL CAKES.** Aids digestion and sweetens the breath. Feed once or twice a week as a general conditioner and to round out the diet. 1 lb., 10c; 10 lbs., 90c. Postpaid, 1 lb., 20c; 10 lbs., \$1.15.

## Bennett's Dog Biscuit

A superior biscuit. Keeps dogs in good condition. Per box, 35c; by parcel post, 45c.

## Bennett's Puppy Biscuit

Especially prepared for puppies. Per box, 35c; by parcel post, 45c.

## Animal Yeast Foam

The amazing food supplement that keeps dogs and cats healthier and happier. Improves appetite and digestion, gives thicker, glossier coat, keeps skin cleaner. Feed it as directed and you won't have any ailing dogs. 4-lb. box, 95c; by mail, \$1.10.

## Fleischmann's Yeast

Irradiated Dry Yeast aids digestion and increases the appetite of all animals.

A Vitamin deficient diet invites skin trouble—itch, eczema, etc. A spoonful of Fleischmann's Dry Yeast, which is rich in Vitamins B, G and D, will easily correct this trouble. 3 1/2-oz. can, 25c; 8-oz. can, 50c; 1-lb. can, 85c; 5-lb. can, \$3.50. By mail, 35c, 60c, 95c, and \$3.70.

## Cedar Bedding

A cedar bedding for all dogs, containing all the oil and original odor of the red cedar wood. Keeps down flies and is sanitary. Keeps down that doggy smell. 5-lb. bag, 35c; 25-lb. bag, \$1.25; 50-lb. bag, \$2.00. By mail, 5-lb. bag, 55c.

## "DOGZOFF"

Copyright 1933

Spray it on shrubs and evergreens to keep them from becoming a nuisance and to prevent the Evergreens from dying; not offensive to human beings. One spraying will last three or four weeks. Will also drive out moles when put into the runs. Bottle, 60c; by mail, 65c.

## Dog Scat

Will keep dogs from evergreens, shrubs and plants, etc. Dogs and cats hate it. Guaranteed to do the work. Per tube, 30c; by mail, 40c.

## Cupid Chaser

The preparation will keep dogs away from females in season. Don't spay or spoil your female puppy. Cupid Chaser will prevent breeding and its use will prevent embarrassment when your female comes in season. Price, \$1.00, postpaid.

## Kit Kat

Keeps cats from having worms, constipation, sore eyes, humors and all diseases peculiar to cats. 25c a box. Mailed, 35c.

## Lactol

For rearing puppies there is nothing like it. Lactol is a valuable food for sick dogs, especially for animals recovering from any serious sick spell. Full directions for using are on the packages. 9-oz. can, 75c; 2 1/4-lb. can, \$2.25. By mail, 85c and \$2.40.



By mail, 30c and 60c.

## On-The-Nose

A new method for treating dogs. When spread on the dog's nose like salve, it is immediately licked off. The dog then takes its own dose; it prevents and aids in case of distemper, colds, etc. It is also a mild purgative and tonic, highly recommended by veterinarians and dog fanciers—it is fully guaranteed. Price, \$1.00 a tube, postpaid.

## Nose Lax

A perfect animal laxative, simple and easy to use. A small dab on the nose and the animal will instinctively lick it off.

Nose Lax is not a severe or drastic dose, therefore does not leave the puppy or dog in a weakened condition.

Price, 50c a tube, postpaid.

## Cooper's Magic Disinfectant

Holds down odors and fleas in kennels, in addition gives a healthy condition to all surroundings. 1/2 pt., 25c; pt., 35c; qt., 50c; gal., \$1.40. Not mailable.

## Bell's Liquid Garlic

When used regularly it overcomes poor appetites, fermentation, worms, constipation, gas and poor coats. Liquid Garlic is a general tonic for run down conditions in puppies and old dogs and a general intestinal disinfectant to hold down parasites and acts as a preventative of Toxemia, promoting proper intestinal action. 2-oz. bottle, 50c; 4-oz. bottle, \$1.00; 8-oz. bottle, \$1.75. By mail, 60c, \$1.10, and \$1.85.

## Tricks Your Dog Can Do

This 24-page booklet sells for 10c, and gives you explicit directions for training and teaching tricks to your dog. We will send you a copy free with every order for \$2.00 or more worth of dog remedies. Ask for it if you want a copy.

## Hill's Dog Food

A highly nutritious wholesome food for dogs of all ages. Carefully proportioned, cooked and ready to serve; contains meat, meat by-products, bone meal, cereal, soy bean meal, flour, wheat flour, and cod liver oil. Sold at a moderate price. 1-lb. can, 6c; 12 cans, 65c. By mail, 1 can, 16c; 12 cans, 95c.



## Miller's Quick Lunch

A clean meat product, 55% beef, designed to meet the needs of a quick lunch for dogs and puppies; rich in protein and organic matter. Can be used as a complete food, or with Miller's Ration. 1-lb. can, 10c; 12 cans, \$1.00. Postpaid, 1 can, 20c; 12 cans, \$1.35.

## Ideal Dog Food



The famous Super-charged diet, rich in vitamins. Composed of fresh meat, vegetables, cereals and cod liver oil. Excellent for both cats and dogs. Save the labels and redeem them in valuable merchandise. Send for Gift Booklet.

A product of Wilson & Co., meat packers. At store: 1-lb. can, 10c; 4 cans, 35c; 12 cans, \$1.00. Postpaid, 1-lb. can, 20c; 4 cans, 55c; 12 cans, \$1.35.



## Ken-L-Ration

The Dog Food Supreme. These Foods are Literally Full of Vitamines. Composed of clean, wholesome meat, the best grade of cereals and Norwegian cod liver oil. A perfect balanced ration. 1-lb. can, 10c; 12 cans, \$1.00. Postpaid, 1 can, 20c; 12 cans, \$1.35.

## Red Heart Canned Dog Food

is available in 3 different flavors, beef, fish and cheese flavor. All three diets are made from the same nutritious ingredients—beef by-products, beef, vegetable meal, cereals, bone-meal, and cod liver oil. Completely U. S. Government inspected and fit for human consumption. 1-lb. can, 10c; 12 cans, 95c. By mail, 1-lb. can, 20c; 12 cans, \$1.30.

## Rhit-O Laxative Pills

Should be given after all worm treatment in dogs and puppies. It makes the worm medicine more effective as it drives the worms out of the system. Per box, 15c, postpaid.

## He's Asking For QUADINE



The all-purpose skin remedy for dogs. Cures and prevents mange, eczema, vermin, cuts, ringworm, and does away with that doggy odor. Safe, easy and convenient to use.

Quadine is a non-mussy volatile oil that penetrates the affected areas without injury to tissues. Safe for puppies, good for bleeding or crooked tails. Quadine means no mange, eczema, fleas, or vermin.

Postpaid  
2-oz. Trial size Quadine .... \$0.60 \$0.70  
4-oz. bottle ..... 1.00 1.10  
12-oz. bottle ..... 2.00 2.15  
No. 260—Quadine Sprayer ... 2.50 2.65  
SPECIAL OFFER—One 2-oz. bottle of Quadine and one small Quadine sprayer—Only \$1.50; postpaid, \$1.60.

## Ween

The most modern food for puppies and young dogs, like the mother dog's milk. Ween is easily digested, easily assimilated. Makes puppies thrive and grow. Ween is a liquid food to replace mother dog's milk for puppies. It is easy to use; saves orphan puppies, helps mother dog, and is fine at weaning time. 16-oz. can, 15c; 12 cans, \$1.50. By mail, can, 25c; 12 cans, \$1.85.

## Pulvex Dog Soap

Cleans, deodorizes, kills fleas, and grooms. Cake, 25c; postpaid, 30c.

## Pulvex 6-Use Dog Soap



Oils the skin, tones, kills fleas, deodorizes "doggie" odors, cleans, gives hair a dog show sheen—all in a single operation. The most economical to use because the supersize cake outlasts two ordinary size cakes. Price, 50c; by mail, 55c.

## Pulvex Combination Treatment Worm Capsules

This is the only treatment in one package that expels Tape and Round (ascaris) and Hook Worms. When you use these capsules you need not know a thing about these worms or which type or types of these worms afflict your dog. Just follow the simple directions and your dog will be correctly and completely wormed without gassing, gagging, or harmful effects. In either a "Puppy-size" or a "Dog-size" package.

Box, 18 capsules, for puppies and dogs weighing 1 to 10 pounds, 50c.

Box, 12 capsules, for dogs and puppies weighing 10 pounds and over, 50c.

Box, 36 capsules, for puppies and dogs weighing 1 to 10 pounds, 75c.

Box, 24 capsules, for dogs and puppies weighing 10 pounds and over, 75c.

Above prices are parcel post paid.

## Pulvex Tape and Round Worm Capsules No. 1



Expels Tape and 45% Round Worms in puppies and dogs. Dosage: dogs and puppies, 10 pounds and less, 1 capsule. Dogs weighing 30 pounds, 3 capsules. Sold in bulk. Each, 10c; 5 for 25c, postpaid.

## Pulvex Flea Powder

Actually kills fleas instead of merely stupefying them. Prevents reinfestation for days. Odorless, non-irritating and harmless. Shaker top 2-oz. can, 50c; 12-oz. can, \$1.25. By mail, 55c and \$1.35.

## Sopex, the Exhibitors' Shampoo

Ultrafine vegetable compound that cleans thoroughly, kills fleas and lice and leaves the hair with a beautiful, silky, dog show sheen. Not to be rinsed off. 4 ozs., 75c; by mail, 80c.

## Pulvex Kur-Mange

Ideal wash or dressing to relieve itching and kill the mites that cause sarcoptic mange. Kills fleas and lice. Price, 75c; by mail, 80c.

## Pulvex Dry Cleaner

Cleans dog perfectly without water. Ideal in cold weather. Kills fleas, destroys odors and gives hair new luster, 50c; mailed, 55c.

## Miller's Conditioner

Dogs who go off their feed occasionally, get listless or sluggish and sometimes scratch because of skin trouble, are usually put back in condition quickly with Miller's Conditioner.

It is invaluable for bitches in whelp and is a great aid in making rich alkaline milk, and for helping puppies grow sound bones and teeth. 4-oz. can, 35c; 8-oz. can, 60c; 16-oz. can, 90c; by mail, 40c, 70c, and \$1.00.

## Miller's Dog Soap

A highly scented dog soap, that has flea-killing abilities. Miller's soap is really a boon to dog owners. Price, cake, 20c; 6 cakes, \$1.00. By mail, 30c and \$1.15.

## Sergeant's Dog Remedies

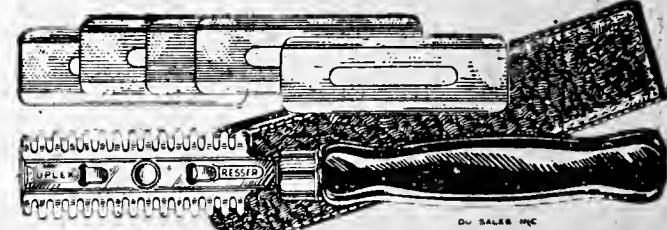
Meet Your  
Dog's Best Friend



## Sergeant's DOG MEDICINES

	Post- paid	Each paid
Sergeant's Arsenic Iron Pills	\$0.60	\$0.65
Sergeant's Canker Wash	.60	.65
Sergeant's Carbolic Tar Soap	.25	.30
Sergeant's Condition Pills	.60	.65
Sergeant's Disinfectant, 4 ozs.	.25	.35
Sergeant's Diuretic Pills		
Rheumatism	.60	.65
Sergeant's Expectorant Medi- cine—Coughs	.60	.65
Sergeant's Eye Wash	.60	.65
Sergeant's Intestinal Astring- ent—Diarrhea	.60	.65
Sergeant's Laxative Capsules	.60	.65
Sergeant's Liniment	.60	.65
Sergeant's Mange Medicine	.65	.75
Sergeant's Mouth Wash	.60	.65
Sergeant's Nerve Sedative— Running Fits	.60	.65
Sergeant's Pine Oil Disinfectant	.60	.70
Sergeant's Pepsin Tablets	.60	.65
Sergeant's Puppy Worm Caps	.60	.65
Sergeant's Skip Flea Powder	.25	.35
Sergeant's Skip Flea Soap	.25	.30
Sergeant's Special Distemper	1.20	1.30
Sergeant's Sure-Shot		
Worm Caps	.60	.65
Sergeant's Sure-Shot		
Worm Liquid	.60	.65
Sergeant's Tape Worm Medicine	.60	.65
Sergeant's Cod Liver Oil Caps	.60	.65

## Duplex Stripping Comb

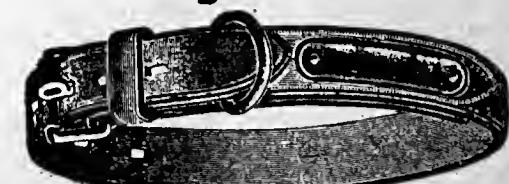


Strips and trims any dogs, gives a smooth, even finish. Price, \$1.00; postpaid, \$1.10.



	Post- paid	Each paid
Chain Dog Lead, 4 ft.	\$0.15	\$0.25
Chain Dog Lead, 4 1/2 ft.	.25	.35
Chain Dog Lead, 6 ft.	.35	.45

## Dog Collars



Black and russet leather. All sizes, 25c, 35c, 60c, and \$1.00. Postage, 10c each extra.

Quantity Prices Given on

# R-H Co.'s Dog and Cat Remedies and Supplies

## Delcreo Dog Remedies

	Each	Post-paid
Delcreo—For Distemper and Black Tongue: 4-oz. bottle	\$1.50	\$1.60
16-oz. bottle	5.00	5.25
Delcreo Tonic, 2-oz. bottle	.75	.85
Delcreo Cod Liver Oil, 4 ozs.	.30	.40
Delcreo Sulfminol, 4 ozs.	.50	.60
Delcreo Sulphur Compound	1.00	1.10

## Glover's Dog Remedies

	Each	Post-paid
Glover's Flea and Insect Powder	.35	.45
Glover's Kennel and Flea Soap	.25	.30
Glover's Round and Hook Worm Capsules	.60	.65
Glover's Round Worm Vermifuge	.60	.65
Glover's Mange Medicine	.75	.85
Glover's Medicated Soap	.30	.35

## Q. W. Dog Remedies

	Each	Post-paid
Q. W. Cod Liver Comp.	.95	1.10
Q. W. Condition Powder	1.00	1.05
Q. W. Constipation Pills	.65	.70
Q. W. Cough Mixture	.65	.75
Q. W. Tapeworm Mixture	1.00	1.05
Q. W. Tonic	.65	.75
Q. W. Mange Lotion	.75	.85
Q. W. Worm Capsules	.65	.70
Q. W. Worm Mixture	.65	.75
Q. W. Dog Soap	.35	.40
Q. W. Eye Salve	1.00	1.05
Q. W. Fit Tablets	.95	1.05
Q. W. Liniment	.75	.85

## Justrite Dog Remedies

Justrite Worm Tablets—		
Pkg. 6 tablets	.....	\$0.10
Justrite Bath and Flea Soap	.....	.15
Justrite Flea Powder, Junior can	.....	.10

(Postage on above, 5c each extra)

## "Tet" for Worms

### Tetrachlorethylene

Tetrachlorethylene is endorsed by the U. S. Department of Agriculture as the safest known effective wormer for Dogs and Puppies. Prevents and cures Running, Barking Fits and Sore Mouth.

Box for large size dogs, \$1.00. Per box for small size dogs, \$1.00. Per box medium capsules, \$1.00, postpaid.

## Rubber Playthings

### AMERICAN MADE BEST GRADE RUBBER

	Each	Post-paid
Rubber Dog Bone, Scented	\$0.15	\$0.20
Rubber Pup Head, Small	.15	.20
Rubber Rat, Large	.10	.15
Rubber Ring, Scented	.15	.20
Real Bone, Sterilized	.15	.20
Solid Rubber Ball, Scented	.15	.20
Rubber Cat Head, Small	.60	.70
Rubber Cat Head, Large	.85	.95
Scented Whistle Ball, Small	.15	.20
Scented Whistle Ball, Large	.20	.25
Rubber Floating Ball, Small	.25	.30
Rubber Floating Ball, Large	.35	.40
Grip Ball, Solid Live Rubber	.20	.25
Rubber Bell Ball, Scented	.15	.20
Rubber Tug Toy	.25	.30
Thick Rubber Bell Ball	.25	.30
Jumbo Bone With Bell	.50	.60

## Miscellaneous Items

	Post-paid
Duplex Stripping Comb	\$1.00
Package of 5 Blades for above	.50
Oval Brush with Strap	.50
Double Dog Brush	.60
Rubber Set Wire Brush	.30
Long Hair Dog Wire Brush	.50
Steel Comb, Best Quality	.75
Aluminum Combs	.25
Dog Candy, No Sugar	.10
Chain Lead, 4 Ft.	.15
Chain Lead, 4½ Ft.	.25
Chain Lead, 6 Ft.	.35
Braided Leads, 48 In.	.35
Choke Chain, 18-20-22 In.	.50
Dog Name Plate	.10
Identification Tube	.15

Write us your requirements.

For Dog Sweaters, Blankets, Harness, Collars, Etc., state size, style, color. We carry a complete line of these items.

## For the Cat

	Post-paid
Catnip Mouse	\$0.10
Catnip Toy	.15
Loose Catnip	.10
Kit Kat Tonic	.25
Red Heart Cat Food, ½-lb. can	.05
Tiny Bits Dry Cat Food, 10¼ ozs.	.15

# Bird and Fish Foods, Remedies and Supplies

## Gold Fish Food and Supplies

	Pkg.	Post-paid
Natural Fish Food	\$0.10	\$0.15
Wafer Fish Food, Large size	.10	.15
Tropical Fish Food, fine or coarse	.10	.15
Turtle Food	.10	.15
Justrite Natural Fish Food, 1-lb. pkg.	.50	.60
French's Pellet Fish Food	.10	.15
Justrite White Fungus Remedy, 1-oz. bottle	.10	.15
Grassy Fork Colored Shells	.10	.20
Grassy Fork Colored Chips	.10	.20
Aquarium Cement. Mends all leaks. Small pkg.	.15	.25
Aquarium Cement, 1-lb. can	.50	.60
Aquarium Ornaments, assorted kinds	.10	.15
Aquarium Dip Net for Goldfish, 4-inch	.10	.15
Aquarium Dip Net for Tropical Fish	.10	.15
Aquarium Dip Net for Goldfish, large size	.35	.45
Aquarium Gravel, Silver—28-oz. carton	.10	.25
Turk Island Salt to Harden Fish	.10	.20
Purifier Antiseptic Ball for Aquariums	.10	.15

We carry a full line of aquariums. Sizes: 2 gallons to 15 gallons; glass fish bowls, sizes 1 quart to 2 gallons; and many other items which we will be glad to quote on request.

## Miscellaneous Bird Supplies

	Post-paid
Colored Opal Bird Cups, green, black, and red	\$0.10
White Opal Bird Cups	.05
White Opal China Bath	.10
White China Treat Cups	.05
Round Bird Swing, cedar	.15
Round Bird Swing, plain wood	.10
Square Bird Swing, cedar	.15
Square Bird Swing, plain wood	.10
Kill Mite Rings, two on a card	.10
Opera Perch Brush	.35
Ideal Perch Cleaner	.10
Swivel Swing Perch	.10
Wood Clip Perch, plain	.10
Wood Clip Perch, cedar	.15
Bird Cage Wall Bracket, 10 in., ivory-green	.15
Inside Wire Nest With Clamp	.10
Outside Wire Nest	.45
Japanese Inside Bird Cup With Hook, colors	.25
Aluminum Leg Bands, consecutive numbers	.05

We carry other items too numerous to mention and will appreciate an inquiry as to your needs.

## Cuttle Fish Bones

Loose, 2 for 5c; lb., 50c. By mail, 2 for 10c; lb., 60c.

Justrite Cuttle Bone, 1 to carton. 5c; postpaid, 7c.

## Eight-In-One Health, Song and Vigor Restorer

A quick relief for colds and loss of song and moulting out of season in canaries. Keeps them in song. 3-oz. bottle, 25c; by mail, 35c.



## Justrite Bird Food and Remedies

	Post-paid
Justrite Bird Bitters, 1-oz. bottle	\$0.10
Justrite Bird Bitters, 2 ozs. with dropper	.25
Justrite Bird Charcoal, box	.10
Justrite Bird Gravel, box	.10
Justrite Bird Nesting Hair, pkg.	.10
Justrite Bird Salve, pkg.	.15
Justrite Bird Tonic, bottle	.25
Justrite Bird Wash, 2-oz. bottle	.15
Justrite Bird Cuttle Bone, each	.05
Justrite Bird Feather Pulling Food, pkg.	.25
Justrite Bird Lice Powder, can	.10
Justrite Bird Nest Eggs, Artificial, doz.	.25
Justrite Bird Nesting and Mating Food, pkg.	.10
Justrite Bird Moult Food, 1½-oz. can	.10
Justrite Parrot Food, 14-oz. carton	.25
Justrite Bird Song Restorer, 1½-oz. can	.10
Justrite Bird Vita Egg Biscuit, 1-oz. pkg.	.15
Justrite Canary Treats, 2 in. pkg.	.05
Justrite Cage Cleaner, Kills lice in cage. 4-oz. bottle.	.15
Justrite Color and Pepper Food. Brings out beautiful deep color. ½ oz.	.10
Justrite Honey Roll With Charm Bell. An exerciser and a food	.10
Justrite Imported Bird Seed, 7-oz. carton	.10
Justrite Iron Tonic. Makes them strong and restores appetite. 1-oz. bottle	.10
Justrite Love Bird Seed, carton	.15
Justrite Mixed Bird Seed With Bird Biscuit and Cuttlebone, 10 ozs.	.15
Justrite Vitamin Health Food With Cod Liver Oil. Supplies Vitamins A, B, and D	.10

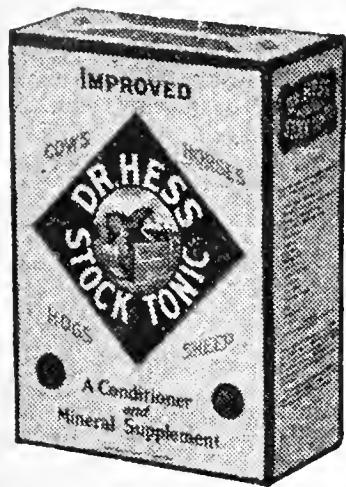
## Bird Seed

	Post-paid


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# The Dr. Hess Products

## Dr. Hess Stock Tonic



A conditioner and mineral supplement for cows, horses, sheep and hogs. Increases appetite, aids digestion and assimilation. Promotes proper elimination. Tests show cows receiving tonic consume 7% to 10% more feed and give 18% to 20% more milk. Feeder cattle show average increased daily gain one-third pound per head. Valuable aid to calving. Conditions horses and mules for work.

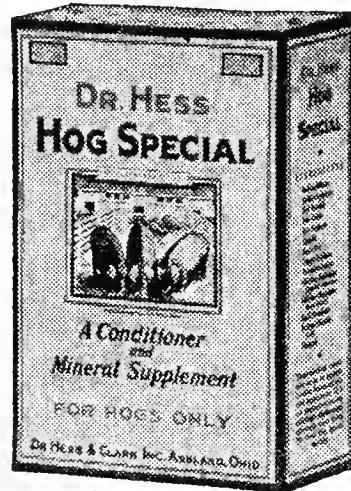
100-lb. drum	\$9.40;
25-lb. pkg.	2.85; ppd., \$3.30
15-lb. pkg.	1.90; ppd., 2.20
7-lb. pkg.	.95; ppd., 1.15
3-lb. pkg.	.45; ppd., .60
1 1/2-lb. pkg.	.25; ppd., .40

## Dr. Hess Hog Special

Conditioner and mineral supplement especially designed for swine. Tests show hogs reach market weight 15% less time on 25% less feed. Especially indicated for runty, unthrifty pigs.

Not Postpaid:  
100-lb. drum \$9.40  
25-lb. pkg. 2.85  
15-lb. pkg. 1.90  
7-lb. pkg. .95  
3-lb. pkg. .45  
1 1/2-lb. pkg. .25

Postpaid:  
25-lb. pkg. \$3.50  
15-lb. pkg. 2.20  
7-lb. pkg. 1.15  
3-lb. pkg. .60  
1 1/2-lb. pkg. .40



## Dr. Hess Poultry Pan-a-Min

A conditioner and mineral supplement for poultry. Tests show that birds receiving Pan-a-Min regularly lay an average of 19 more eggs per year; baby chicks grow faster, mature earlier. Helps shorten moulting period. Costs but 10c per hen per year.

Not Postpaid:  
100-lb. drum \$9.40  
(600-bird size)  
25-lb. pkg. \$2.85  
(150-bird size)  
15-lb. pkg. \$1.90  
(90-bird size)  
7-lb. pkg. \$0.95  
(40-bird size)  
3-lb. pkg. \$0.45  
(20-bird size)  
1 1/2-lb. pkg. \$0.25  
(10-bird size)

Postpaid:  
25-lb. pkg. \$3.50  
15-lb. pkg. 2.20  
7-lb. pkg. 1.15  
3-lb. pkg. .60  
1 1/2-lb. pkg. .40

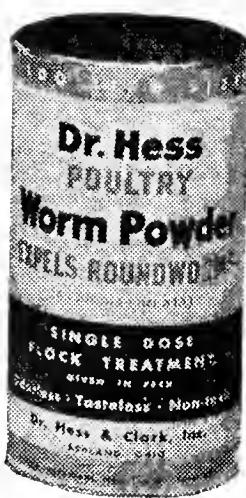
## Dr. Hess Poultry Worm Tablets

Available for those who prefer individual treatment. Same material as powder.

Not Postpaid:  
1000 tablets \$6.50  
500 tablets 3.50  
250 tablets 2.00  
100 tablets 1.00  
40 tablets .50

Postpaid:  
1000 tablets \$6.70  
500 tablets 3.65  
250 tablets 2.10  
100 tablets 1.10  
40 tablets .60

## Dr. Hess Poultry Worm Powder



A single dose flock treatment given in feed. Active principle, nicotine combined with other materials which make it insoluble until it reaches intestines where it is released full strength. Odorless, tasteless, non-toxic. Does not interfere with egg production or feed consumption.

Not Postpaid:  
2 1/2-lb. pkg. \$5.40  
(1000-bird size)  
1 1/2-lb. pkg. 3.00  
(500-bird size)  
10-oz. pkg. 1.90  
(250-bird size)  
4-oz. pkg. .90  
(100-bird size)  
2-oz. pkg. .50  
(50-bird size)

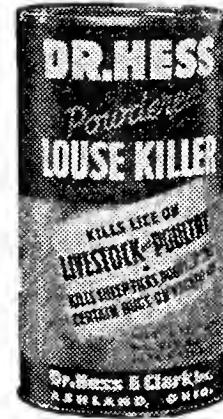
Postpaid:  
2 1/2-lb. pkg. \$5.55  
1 1/2-lb. pkg. 3.15  
10-oz. pkg. 2.00  
4-oz. pkg. 1.00  
2-oz. pkg. .50

## Dr. Hess Powdered Louse Killer

Kills lice on stock, poultry; bugs on cucumber, squash and melon vines; slugs on rose bushes. Kills winter ticks on sheep. If used in dust bath, poultry will delouse themselves. Efficient, convenient, economical. Put up in handy sifter top cans.

Not Postpaid:  
6-lb. pkg. \$1.25  
2 1/2-lb. pkg. .65  
1-lb. pkg. .30

Postpaid:  
6-lb. pkg. \$1.40  
2 1/2-lb. pkg. .80  
1-lb. pkg. .40



## Dr. Hess Liquid Louse Killer



Spread on perches, its fumes kill lice while birds roost. Bottles have handy rubber spreader. Economical, concentrated. Kills plant lice.

16 ozs.	\$2.25
(1440-bird size)	
8 ozs.	1.45
(720-bird size)	
4 ozs.	.85
(360-bird size)	
1 oz.	.35
(90-bird size)	

Liquid Louse Killer not mailable.

## Dr. Hess Chick Tablets

Effective for diarrhoeal discharges of both baby chicks and grown birds; a bowel astringent given in drinking water. Once the tablets are in solution they remain so indefinitely. The water is thoroughly medicated and is all good until used.

Not Postpaid:  
225 tablets \$1.00  
100 tablets .50  
45 tablets .25

Postpaid:  
225 tablets \$1.10  
100 tablets .60  
45 tablets .30



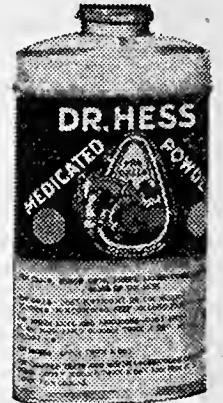
## Dr. Hess Poultry Tablets



Valuable in treatment of roup; slightly astringent, non-irritating and healing. Used as a local antiseptic and to medicate drinking water. Aids in preventing spread of disease. Once dissolved, the solution needs no further stirring.

Prices: 25c, 50c, and \$1.00 packages. Postpaid, 30c, 55c, and \$1.10.

## Dr. Hess Medicated Powder

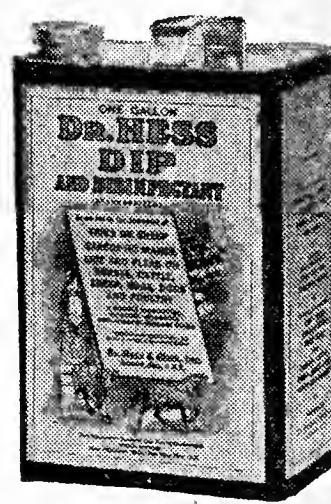


A soothing white powder for treating cuts, scratches, galls and all surface wounds. Forms a thin protective coating and wound starts healing. Use in the home for scalds, burns, galls and chafed skin.

Not Postpaid:  
10-oz. pkg. \$0.50  
4-oz. pkg. .25

Postpaid:  
10-oz. pkg. \$0.60  
4-oz. pkg. .30

## Dr. Hess Dip and Disinfectant



Standardized quality disinfectant for use in stables, barns, poultry houses, and for killing ticks, lice, mites, and other parasites on livestock. Has 5 carbolic acid coefficient. Makes milky white emulsion. Costs less to use than cheaper inferior products.

5-gal. can	\$6.50
1-gal. can	1.40
1/2-gal. can	.80
1/4-gal. can	.55

Dip and Disinfectant not mailable.

## Dr. Hess Fly Spray



For use on livestock and in stables. Over 90% efficient as a fly killer. Most efficient fly repellent. One application protects cows from fly torment all day long. Has pleasant piney odor. Will not gum or discolor the hair. Will not taint milk.

5-gal. can	\$5.00
1-gal. can	1.40
1/2-gal. can	.80

Fly Spray not mailable.

## Dr. Hess Udder Ointment



A penetrating, soothing emollient for bruised, caked or swollen udders, cracked or chapped teats and other bruises or superficial injuries.

1-lb. can	\$1.00
7-oz. can	.50
Postpaid, 7 oz., 60c; 1 lb., \$1.10	

# Poultry Remedies



**ANIMAL POUMLTRY YEAST FOAM.** Makes Chicks grow fast, prevents diseases. 4-lb. box, 95c. Postpaid \$1.10.

**AVICOL.** Prevents and cures White Diarrhea in chicks and grown fowls. 50c and \$1.00 boxes, postpaid.

**BLACK LEAF 40.** Kills poultry lice by painting it on the roosting poles. 1-oz. bottle, 35c; 5 ozs., \$1.00; 1 lb., \$2.25; 2 lbs., \$3.25; 5 lbs., \$5.85; 10 lbs., \$10.60. Postpaid: 1 oz., 40c; 5 ozs., \$1.10; 1 lb., \$2.40; 2 lbs., \$3.45; 5 lbs., \$6.10; 10 lbs., \$10.95.

**BLACK LEAF 40 WORM PELLETS.** The single or individual treatment for round worms in poultry; safe and effective. Doz., 20c; 100, 85c; 1000, \$6.25, postpaid.

**BLACK LEAF 40 WORM POWDER.** A flock treatment for all worms in poultry. 100-dose size, 75c; 600-dose size, \$3.00, postpaid.



**CHOLERINE.** Tonic and Conditioner. Cures Cholera and bowel trouble in chicks and hens. 8-oz. bottle, 35c; postpaid, 45c. 16-oz. bottle, 65c; postpaid, 80c. 1-qt. bottle, \$1.00. 1-gal. bottle, \$2.25.

**CREWOOD OIL.** Kills mites and lice in the poultry house, termites and flying ants in houses. Gal., 90c; 2½ gals., \$1.50; 5 gals., \$2.50; 50-gal. drum, \$16.00. Can't mail.

**DON SUNG.** A tonic that makes hens lay. Box, 45 tablets, 50c; box, 135 tablets, \$1.00, postpaid.

**HESS POUMLTRY REMEDIES.** See page 68 for list with prices.

## Dr. Salisbury's Remedies

**AVI-TONE.** A tonic; also prevents worms in chicks and poultry. 10-oz. pkg., 25c; 3-lb. pkg., \$1.10; 6-lb. pkg., \$2.00. Postpaid, 35c, \$1.25, and \$2.20.

**CAMPHOSAL.** For roup and colds in poultry. 2-oz. can, 45c; 4 ozs 75c. Postpaid, 55c and 85c.

**PHENOSAL.** Cures bowel trouble and diarrhea in chickens and turkeys. 25 tablets, 25c; 50 tablets, 50c; 125 tablets, \$1.00. Postpaid, 30c, 60c, and \$1.10.

**RAKOS.** Cures Coccidiosis in chicks. ½-pt. size, 75c; postpaid, 85c.

**STOP PICK** prevents toe and vent picking. 2½-oz. jar, 25c; postpaid, 35c.

**FOWL POX VACCINE** prevents and cures sorehead or chicken pox in poultry and turkeys. 100-dose size, 75c; 500-dose size, \$3.25. Postpaid, 85c and \$3.35.

*"Paint" it on the Roosts*  
**"Black Leaf 40"**  
*Kills Poultry Lice*

**FLEISCHMANN'S YEAST.** A tonic and conditioner. Keeps poultry in perfect health. 3½ ozs., 25c; ½-lb. can, 50c; 1 lb., 85c; 5 lbs., \$3.50. By mail, 35c, 60c, 95c, and \$3.70.

**GERMO CARBOLINE.** For disinfecting poultry houses. 8-oz. bottle, 25c; postpaid, 35c.

**GERMO POUMLTRY HOUSE PAINT.** Kills lice and mites. ½-gallon can, 75c; postpaid, \$1.00.

**GROUP OVER.** The over-night roup remedy. Gives quick results. 50c and \$1.00 bottles. Postpaid, 60c and \$1.10.

**LEE'S GERMOZONE.** For putting in drinking water of poultry as a preventative of transmittal diseases through drinking water. For simple diarrhoea and bowel trouble. Also good for anti-septic application for ocular roup, etc. 4-oz. bottle, 40c; 12-oz. bottle, 75c; 32-oz. bottle, \$1.50. Postpaid, 50c, 90c, and \$1.70.

**NOPCO COD LIVER OIL.** Increases egg production, prevents diseases, makes chicks grow fast. If you want success with brooder chicks, give them Nopco XX grade Cod Liver Oil in their feed. 2-lb. cans, \$1.00; 5-lb. can, \$2.25. Postpaid, \$1.15 and \$2.45.

**PINE WHITE.** A deodorant and disinfectant. White wash paint, brightens, whitens, purifies, stays white and sticks —used as a white wash. 5 lb. pkg., 60c. Postpaid, 80c.

## Pratt's Remedies

**PRATT'S CHICK TABLETS.** For White Diarrhoea. 30c and 60c size, postpaid.

**PRATT'S DISINFECTANT.** For poultry houses, barns, etc. Pint, 35c; postpaid, 50c. Qt., 50c; postpaid, 70c. Gallon, \$1.45; postpaid, \$1.80.

**PRATT'S HEALING OINTMENT.** For sores and cuts. Tube, 25c, postpaid.

**PRATT'S INHALANT.** A flock treatment for colds in poultry. Pint, 60c; qt., \$1.00. Postpaid, 75c and \$1.20.

**PRATT'S R. P. TABLETS.** Roup tablets that prevent and cure colds and Roup. 25c and 50c pkg., postpaid.

**PRATT'S POUMLTRY REGULATOR.** Increases egg production, a most satisfactory preparation. 1½-lb. pkg., 25c; 4-lb. pkg., 55c; 12½-lb. pkg., \$1.60; 25-lb. pail, \$2.85. Postpaid, 40c, 75c, \$1.85, and \$3.25.

**PRATT'S WORM POWDER.** A flock treatment for round and pin worms in poultry. 100-hen size, 75c; 500-hen size, \$2.50. Postpaid, 85c and \$2.65.

**PRATT'S N. K. CAPSULES.** This new Split Action worm capsule, containing both Kamala and Nicotine, is safe, sure and effective. Adult size. Doz., 25c; 50, 60c; 100, \$1.00; 1,000, \$8.50, postpaid.

Chick and Pullet size: Doz., 20c; 50, 50c; 100, 75c; 1,000, \$6.00, postpaid.

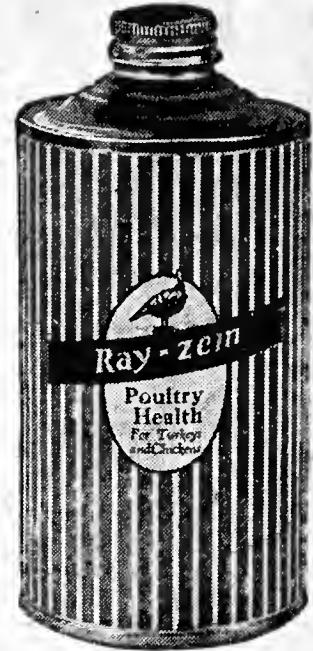
**PRATT'S LICE POWDER.** Kills poultry lice effectively and quickly. Per box, 30c; postpaid, 40c.

**POULTRY LITTER.** A perfect deodorizer. It absorbs, keeps poultry houses sanitary. 2-bu. bag, 75c; ½ bale, \$1.90; bale, about 20 bu., \$2.75. Cannot be mailed.

**NOPCO**  
 Cod Liver Oil

**RAY-ZEM.** A real preparation for turkeys. Prevents and cures Black Head, Roup, etc. 4-oz. can, 50c; 8-oz. can, \$1.00; pint can, \$1.50; quart can, \$2.00; ½ gal. \$2.75. By mail, 60c, \$1.10, \$1.65, \$2.20, and \$3.00.

**SODIUM FLUORIDE.** Sure death to lice on poultry, water bugs, ants, and roaches. 35c and 60c cans. Postpaid, 40c and 70c.



## \$1,000.00 Remedies

\$1000.00 **ANT BANE**, 35c and 65c. By mail, 45c and 75c.

\$1000.00 **BEDBUG KILLER** (35c and 65c. By mail, 45c and 75c.

\$1000.00 **FLEA KILLER**, 25c. By mail 35c.

\$1000.00 **MOTH KILLER**, 75c. By mail 90c.

\$1000.00 **ROACH KILLER**, 35c, 65c, \$1.25. By mail, 45c, 75c, \$1.35.

**TOBACCO POWDER, GOLD LEAF.** Use 2 lbs. to 100 lbs. of poultry mash to prevent worms in chickens. 2-lb. pkg., 25c; postpaid, 40c. 10-lb. pkg., 80c; postpaid, \$1.05.

**TOXITE.** One of the best remedies and preventatives for Coccidiosis in poultry. Spray Toxite to assist in keeping down diseases such as Bronchitis, Roup, Chicken Pox, Pneumonia and Colds. Toxite will kill fleas, ants, roaches, ticks, mites, bedbugs. Kills round and tape worm eggs; in fact, it is a powerful germicide for all live stock and poultry. Qt., 50c; gal., \$1.25. Postpaid, qt., 70c; gal., \$1.65; 5-gal. can, \$6.00 at store.



**WALKO DIARRHOEA REMEDY.** Cures and prevents White Diarrhoea in baby chicks. 50c and \$1.00 sizes, postpaid.

**WORM-R.** You cannot raise poultry successfully unless they are properly wormed. Russell's Worm-R is a Nicotine Kamala combination for expelling large round worms in chicks, hens and turkeys. Russell's Worm Powder is thorough and dependable. We recommend it in every way. 3½-oz. pkg., enough for 80 hens or 250 chicks, 65c; postpaid, 75c. 7-oz. pkg., \$1.00; postpaid, \$1.10.

**WORM R. TABLETS.** Individual treatment to expel large round worms and de-segment large tape worms in poultry and turkeys. Bottle 200 tablets, chick size, \$1.00; by mail, \$1.10. Bottle 100 tablets, hen size, \$1.00; by mail, \$1.10.

**ZENOLEUM.** A wonderful disinfectant and germicide. 8-oz. can, 35c; postpaid, 45c. Pint can 50c; postpaid, 65c. Qt. can, 75c; postpaid, 90c; ½ gal. can, \$1.25; postpaid, \$1.45. 1-gal. can, \$2.00; postpaid, \$2.25. 5-gal. can, \$6.75.

**COAL-TAR ZENOLEUM**  
 DISINFECTANT-DIP

# Miscellaneous Remedies

## Stock Remedies



**BAG BALM.** Cures udder trouble and caked bags in cows. Box, 60c; postpaid, 70c.

**BEE - DEE.** This is a real medicine for all stock. It will keep your animals in good condition and prevent diseases. 25c and 50c pkgs.; postpaid, 30c and 60c.

**BLACKMAN'S MEDICATED SALT BRICK.** Fine for all stock; medicated salt. Brick, 25c; case, 12 bricks, \$2.25. Postpaid, brick, 40c.

**DR. HESS HOG SPECIAL.** See page 68 for sizes and prices.

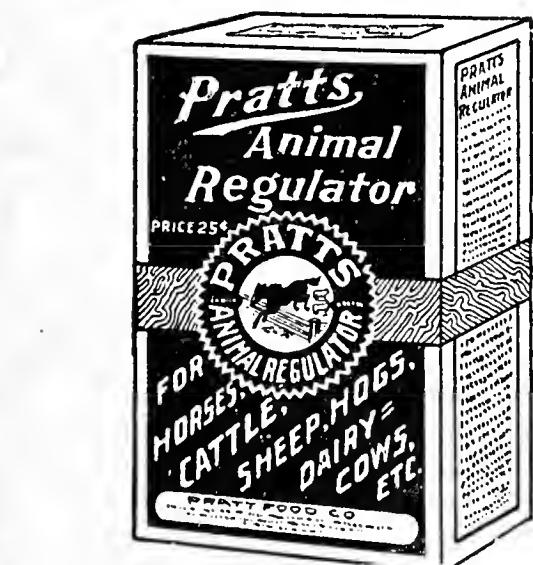
**DR. HESS STOCK TONIC.** See page 68 for sizes and prices.

**DR. HESS SAPONIFIED CRESOL SOLUTION.** For general disinfectant of yards, barns and other premises in the eradication of tuberculosis. Approved by Bureau of Animal Industry. 1-gal. can, \$1.75. Not mailable.

**GARGET COMPOUND.** For internal use to use in conjunction with Bag Balm in treating garget, caked bag and similar udder conditions sometimes following calving. 1 1/4-lb. can, 65c; postpaid, 75c.



**KOW-KARE.** A medicine and tonic for cows and cows only; aids digestion, increases the milk, keeps cows healthy. 65c and \$1.25 cans; postpaid, 75c and \$1.40.

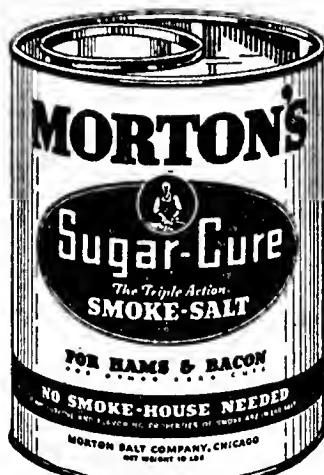


**PRATT'S ANIMAL REGULATOR.** A conditioner and tonic for live stock. Small pkg., 25c; med. pkg., 50c; 25-lb. pail, \$2.85. Postpaid, 35c, 65c and \$3.25.



**SALVET.** A worm destroyer, digester, and conditioner for sheep, hogs and other animals. 3-lb. pkg., 95c; 7 1/2-lb. pkg., \$1.85; 15-lb. pkg., \$3.00. Postpaid, 3-lb. pkg., \$1.10; 7 1/2-lb. pkg., \$2.05; 15-lb. pkg., \$3.40.

## Meat Smoke



**MORTON'S SMOKE SALT.** Salts and smokes meat at one operation and gives the meat a perfect flavor. 2 1/2-lb. can, 25c; 10-lb. can, 90c. Postpaid, 35c and \$1.15.

**MORTON'S SAUSAGE SEASONING.** 3-oz. size, 10c; 10-oz. size, 25c. Postpaid, 15c and 35c.



**OLD SMOKEHOUSE MEAT SMOKE.** The original Kentucky formula of meat smoke which has been found satisfactory in every way. After salting in the usual way, apply Old Smokehouse liquid and your meat will be cured equal to the old smoking methods. Pt., 35c; qt., 60c. Postpaid, 50c and 80c.

**DEAM'S MEAT SMOKE.** After salting, use meat smoke on your meat. It is most satisfactory and dependable. Pt., 35c; postpaid, 50c. 1 qt., 60c; postpaid, 80c.

**TENDER QUICK.** When applied to meat, it will give it that tender quality that you want. 2 1/2-lb. size, 50c; postpaid, 65c.

**TENDER QUICK MEAT PUMPS.** For use when applying Tender Quick. Each, \$1.50; postpaid, \$1.60.

## Fly Sprays

Useful both for stock and household use for killing flies, mosquitoes, etc.

**FLIT HOUSEHOLD SPRAY.** Kills mosquitoes, flies, ants, roaches and will not stain. For use indoors. 1/2 pt., 15c; pt., 25c; qt., 50c; gal., \$1.50. Postpaid, 1/2 pt., 25c; pt., 40c; qt., 70c; gal., \$1.80.

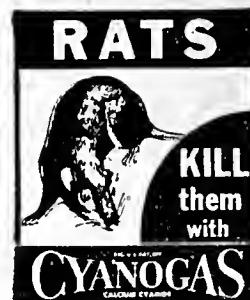
**GERMO FLY SHOO.** For live stock, cows, mules and horses only. Guaranteed satisfactory. 1-qt. can, 45c; 1/2-gal. can, 75c.

**GERMO FLY NO MORE.** For household use. Will not stain. 8 ozs., 25c; gal., \$1.50.

**DR. HESS FLY SPRAY.** A most efficient Fly Spray. Will not gum the hair and will not taint the milk. 1/2 gal., 80c; gal., \$1.40; 5 gals., \$5.00.

**COOPER'S MAGIC DISINFECTANT.** A germicide disinfectant and deodorizer for many uses with a efficiency superior to the ordinary Creosote preparations. Use 4 tablespoonsfuls to a gallon of water for dipping hogs. 1/2 pt., 25c; pt., 35c; qt., 50c; gal., \$1.40; 5 gals., \$6.00. Not mailable.

## Rat and Mouse Destroyers



**CYNOGAS.** Kills rats and moles by blowing the powder in their holes and runways in the ground. 1/2-lb can, 45c; 1-lb. can, 75c; 5-lb. can, \$3.00. Not mailable.

**COWLEY'S RAT AND MOUSE EXTERMINATOR.** This preparation is a scientific chemical compound, and is made in a way that attracts the rats and mice to drink it. This is the secret: They will drink it, and as it only requires a very small amount to kill, there is no telling how many can be killed in one night. Price 35c; mailed, 50c.

**KILL RAT.** A ready to use red squill mixture that kills rats, also moles. Pkg. 10c; postpaid, 15c. 3 pkgs., 25c; postpaid, 35c.

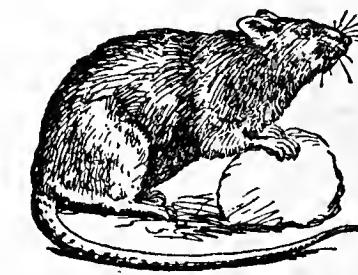
**ROUGH AND READY.** A non-poisonous chocolate bait that will kill rats quickly. Prepared ready for instant use. No mixing needed. Rats like it, then they die. Pkt., 12 baits, 25c; postpaid, 35c.

**RED CROSS RAT AND MOUSE EMBALMER.** A sure rat and mouse destroyer that does the work thoroughly without any odor. 25c, 50c, and \$1.00 per can. Mailed, 35c, 60c, and \$1.10.

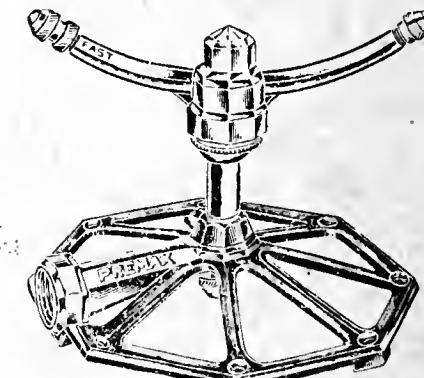


**MOUSE SEED.** No mixing needed. The perfumed seed attracts and kills the mice that eat it. Box, 25c; mailed, 35c.

**SANASEED.** A seed that kills mice without fail. Money back if it doesn't. Pkg., 15c; mailed, 20c.



**RAT TABS.** Need no mixing. Simply roll out a tab. Bottle, 25c, postpaid.



**PREMAX LAWN SPRINKLER.** The floating head sprinkler that revolves on a cushion of air. Covers large or small areas; throws a mist or heavy rain. Price \$2.00; by mail, \$2.25.

## FREE With Orders 1939 CALENDAR AND ALMANAC

Useful in many ways. Gives weather predictions for the next 12 months, with other information.

With first order only we will mail you a copy of our 1939 Almanac Calendar.

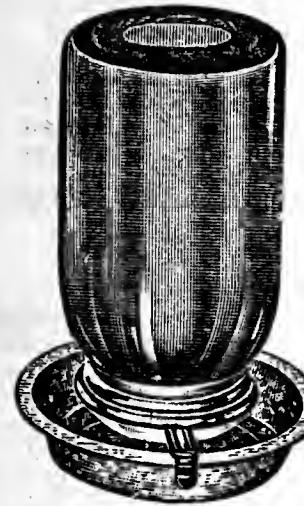
Don't fail to ask for a copy when sending your order.

# R.-H. Co.'s Chick and Poultry Fountains

## Mason Jar Fountain

Constructed so that plenty of water is always in the pan. Pan will not overflow. Fits standard mason jar. We do not furnish the jars.

No. 69G — Fountain Holder. Galvanized. Screw Type. Each, 10c; 3 for 25c. By mail, each, 20c; 3 for 40c.



No. 67G

Galvanized. Clip-type. Each, 10c; 3 for 25c. By mail, each, 20c; 3 for 40c.

No. 67T

Die-stamped tin pan, clip type holder. Each, 15c; 2 for 25c. By mail, each, 25c; 2 for 40c.

## Glass Pan Fountain

The drinking dish or saucer is made of heavy molded glass and the mason jar is held in position with a metal clip, which snaps on the dish and is easily removed for filling or cleaning. A clean, safe fountain for buttermilk, sour milk, remedies, etc. Diameter of dish, 6 in.

No. 1365G with Legs. Each, 15c; 2 for 25c. By mail, each, 25c; 2 for 40c.

No. 365G — Glass Fountain without extension legs. Each, 10c; 3 for 30c. By mail, each, 20c; 3 for 45c.

No. 167G — Same as above, excepting it is made of heavy galvanized metal instead of glass. Price with leg extension, each, 15c; 2 for 25c. By mail, each, 25c; 2 for 40c. Glass Mason Jars not furnished.

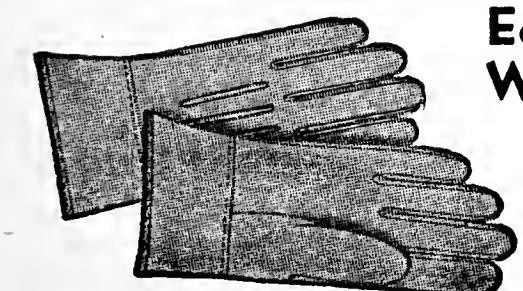
## Round Pan Snap-On Chick Fountain



This is a real improvement in Chick Fountains. It has three lugs spot welded to the pan, form a friction contact which holds the tank and pan together. It is easy to fill and has a convenient wire bail for carrying.

No. 81 — 1 gallon size, each, 60c; mailed, 75c.

No. 82 — 2 gallon size, each, 80c; mailed \$1.00.



### NAPA GOAT GLOVES

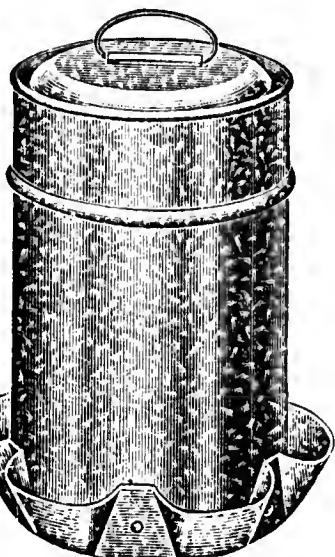
A soft pliable goatskin glove, especially adapted for working in flowers, bulbs and gardens or when spraying trees or plants. These come in all sizes. Price, 70c a pair; postpaid, 80c.

## Snap-On Chick Fountain

Inexpensive single wall fount invert to fill. Can body snaps in place and held by friction. Bail for carrying. Has 6 drinking cups; 12 chicks can drink at once. Easy to fill and keep clean. Heavy galvanized steel.

No. 100B — 1 gallon size, each, 50c; by mail, 65c.

No. 100C — 2 gallon size, each, 75c; by mail, 95c.



## Stoneware Fountains

Made in two parts, the saucer being separated from the upper portion so it can be easily cleaned. These stoneware fountains are the best to have when using any medicine.

No. 1 — For water only. 1 qt., 30c; 2 qt., 50c; 4 qt., 65c. Cannot mail.

No. 2 — For Buttermilk. 2 qt., 50c; 4 qt., 65c. Cannot mail.

## Extra Saucers

For 1-qt. Fountains	.....	Each \$0.15
For 2-qt. Fountains	.....	.15
For 4-qt. Fountains	.....	.25

## New Thrifty Double Wall Fountain



This new double wall fountain is top filled. It operates on the vacuum system. Easy to clean or fill. Die drawn sloping top, prevents roosting. The drinking pan is seamless die drawn with smooth rolled edges. It is made of very heavy 26 gauge galvanized steel, sturdy and substantial. Can be used for hens or chicks.

Price, No. 501½, 1½-gal. size, each, 90c.

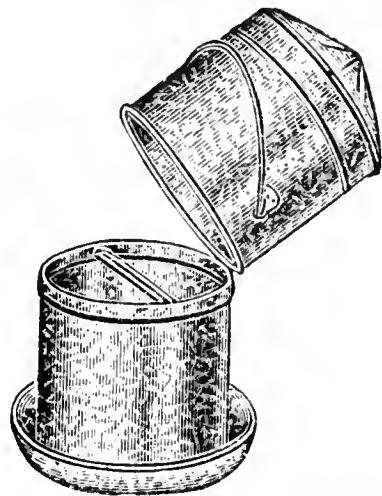
Price, No. 503, 3-gal. size, each, \$1.60.

By mail, 25c extra.

## E. Z. Fill Fountain

Double wall type. ROOST-PROOF die stamped cone top. Brass spring valve is released when outer can slips into place. Handle in inner tank for carrying. Outer can has bail; may be used as a pail. All purpose fount for chicks, pullets, hens.

No. 31 — 3-gal. size, 13½ in. pan. Each, \$1.95. Mailed, 30c extra. No. 235 — 5-gal. size, 15 in pan. Each, \$2.65. Mailed 35c extra.



## Tripod Fountain Stand

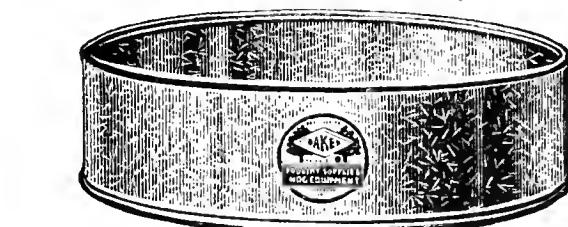
Provides 3 adjustments for height. Pan is held in place by friction.

No. 13 — For Fountain No. 31. Price, 25c; by mail, 35c.

## Float Valve

Attaches to ¼ in. pipe, barrel or tank; insures a continuous supply of water. All working parts brass. Powerful float. Used with wire guards and pan. Makes a very low cost poultry or pigeon fountain.

No. 611 — Float Valve, only; each 90c; mailed \$1.00.



## Open Drinking Pan

A convenient Waterer. Poultry prefer them to the closed styles. They are easily cleaned and give an ample supply of drinking water.

No. 6140 — 14-in. pan. 65c; mailed, 80c.

No. 6170 — 17-in. pan. 80c; mailed, \$1.00.

## Brooder and Fountain Heater

An excellent heater that burns kerosene, for a small brooder. Place in a box and the chicks will keep warm and comfortable. It can also be used with any style poultry fountain and prevents water freezing.

Price, No. 44 Heater, complete, \$1.80, by parcel post, \$2.00.

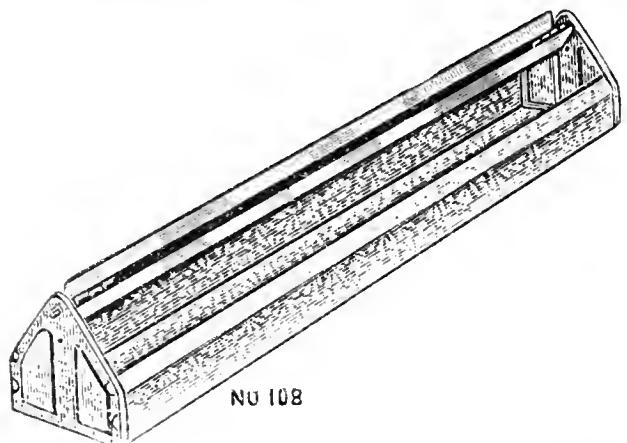
## Egg-Cooling Basket

For gathering and quick cooling of eggs, very sturdy and substantial with strong wire bail on handle.

No. 15 — Galvanized Basket. Each, 75c; postpaid, \$1.10.

# R.-H. Co.'s Chick, Broiler and Hen Feeders

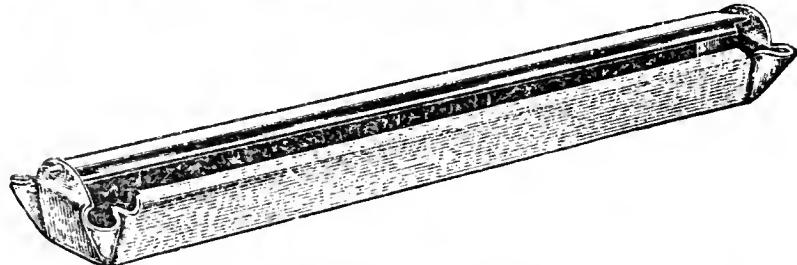
## R.-H. Co.'s Utility Chick Trough



For chicks, day-old to 5 or 6 weeks. Adjustable metal "Z" reel. Trough 1 1/4 in. deep; 3 1/2 in. wide; flange along edge prevents waste. Square bottom. A real value. Heavy gauge galvanized.

No. 107—Feeder, 12 in., each 15c; mailed 25c.  
No. 108—Feeder, 24 in., each 25c; mailed 40c.  
No. 109—Feeder, 36 in., each 35c; mailed 50c.

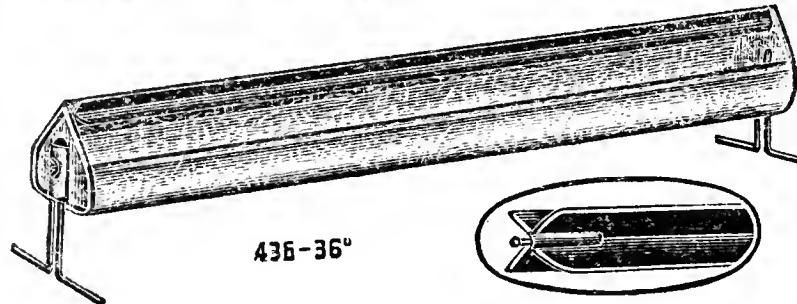
## R.-H. Co.'s Winner Chick Trough



Metal Z-shaped revolving reel. Trough one piece, die stamped, 1 1/8 in. deep; 2 5/8 in. bottom width; 4 in. top width. Turned flange along edge prevents feed waste.

No. 104—Feeder, 10 in. long, each 10c; by mail 20c.  
No. 105A—Feeder, 18 in. long, each 20c; by mail 30c.  
No. 106A—Feeder, 24 in. long, each 25c; by mail 40c.

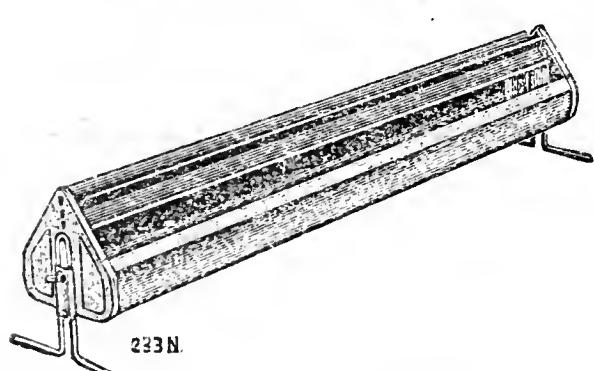
## R.-H. Co.'s Streamline Chick Feeder



For chicks day old to 8 weeks. Extra heavy galvanized steel trough; welded ends; 4-blade metal reel revolves, adjustable 3 positions. Trough 4 in. wide; 2 in. deep. Turned flange along trough edge. Adjustable legs.

No. 424—Chick Feeder—24 in., each 55c; by mail 70c.  
No. 436—Chick Feeder—36 in., each 65c; by mail 85c.  
No. 448—Chick Feeder—48 in., each 80c; by mail \$1.00.

## R.-H. Co.'s New Gro-Fast Feeder

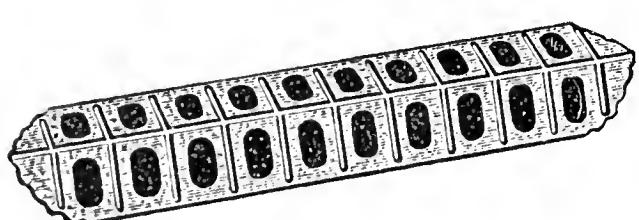


New STREAMLINE design. Round edge prevents feed clogging. ALL-PURPOSE trough. For day old chicks or pullets. Large revolving 4-blade reel adjustable to 3 positions. Legs adjusts height of trough as chicks grow.

Trough of 26-ga. galvanized steel; depth 2 5/8 in., width 5 in. Feed capacity: 3 ft., 7 qts. 4 ft., 9 qts. mash.

No. 233N—Gro-Fast Feeder, 3 ft. long, each 85c; by mail \$1.10.  
No. 234N—Gro-Fast Feeder, 4 ft. long, each \$1.00; by mail \$1.30.

## Chick Feed Trough



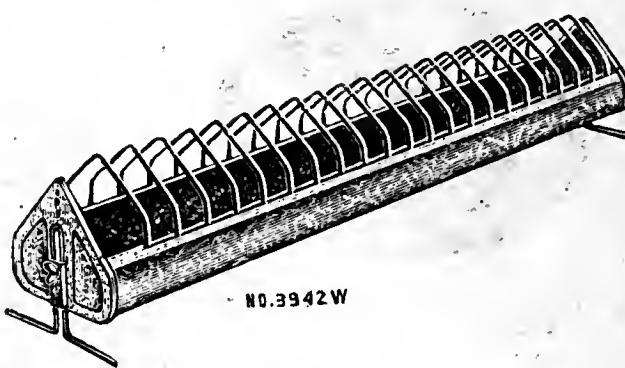
No. 72G—20 in. long. Each 20c; postpaid 35c.

## QUALITY BABY CHICKS

## Top Notch Baby Chicks

Are guaranteed 100 per cent live delivery. Avoid disappointment. Place your orders early for day-old chicks. We will book for shipment when you want them.

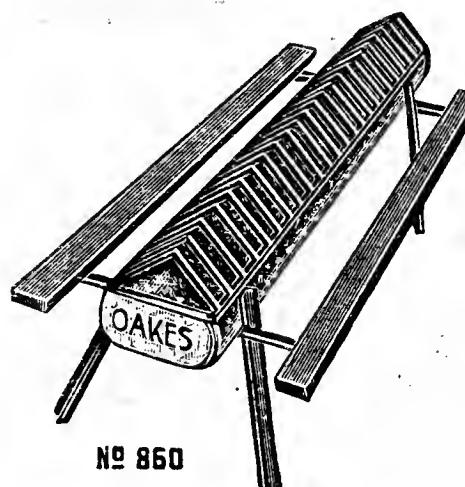
## R.-H. Co.'s O.K. Broiler Feeder



Roost Proof Grill, Adjustable Legs

STREAMLINE trough of 26-ga. galvanized steel, 3 in. deep, 6 3/4 in. wide; welded ends, turned flange prevents waste. ADJUSTABLE LEGS to raise trough out of litter as chicks grow. Hinged wire grill, spacing 1 1/8 in. For chicks 3 weeks and older. Fine for starting turkey poult. Capacity 12 qts. No. 3942W—Broiler Trough, 42 in. long, each \$1.25; mailed \$1.60.

## R.-H. Co.'s Streamline Hen Feeder



Newly designed trough with rounded bottom edge. No corners for feed to lodge and become stale. Eliminates enough feed waste to pay for itself in a few months. Almost as low cost as a home made wooden feeder trough and much more sanitary.

Trough 4 1/2 in. deep, 9 3/4 in. wide, with feed opening 7 in. Heavy gauge galvanized steel. Hinged wire grill, spacing 2 1/8 in. Wood perch 16 in. high. Sturdy legs of angle steel support body. Turned flange prevents feed waste. We recommend 2—5 ft. or 1—8 ft. for 100 hens. Cannot be mailed.

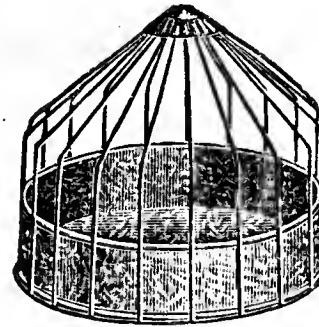
No. 860—Flock Feeder, 5 ft. long, wt. 26 lbs., each \$3.60.  
Above not mailable.

## R.-H. Co.'s Streamline Feeder for Growing Chicks, Pullets or Hens

Same dimensions as above. Angle steel legs 9 in. long bolt to side—raise trough out of litter. Edge of trough adjustable from 7 1/2 to 9 1/2 inches from floor. Hinged wire grill lifts for easy filling or cleaning of trough.

Hens EAT MORE FEED from this low trough and therefore lay more eggs. This trough is cheaper than any home made feeder. Makes an ideal starting trough for turkey poult. A good range feeder. A Super Value. High quality, heavy gauge galvanized steel trough.

No. 860T—Floor Feeder, 5 ft., capacity 4 1/2 pks., each \$2.65.  
Above not mailable.



## Pans and Guards for Feed or Water

Two sizes for growing fowls or hens. Ideal for pigeons. Pans have soldered bottoms; water tight. 4 in. deep.

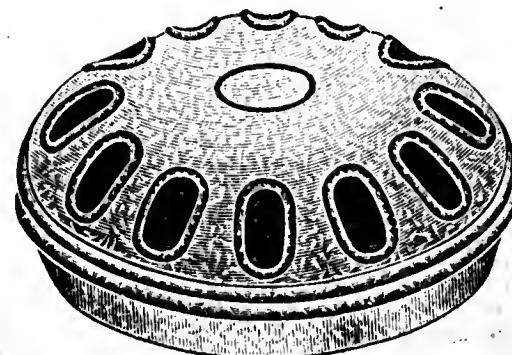
Wire guards welded to cone top. Prevents birds crowding when feeding or drinking.

### PANS ONLY

No. 6140—14 in. Pan only; each 65c; by mail 80c.  
No. 6170—17 in. Pan only; each 80c; by mail \$1.00.

### WIRE GUARDS ONLY

No. 614—14 1/2 in. Guard, each 50c; by mail 70c.  
No. 617—17 in. Guard, each 55c; by mail 80c.



## Round Chick Feeders

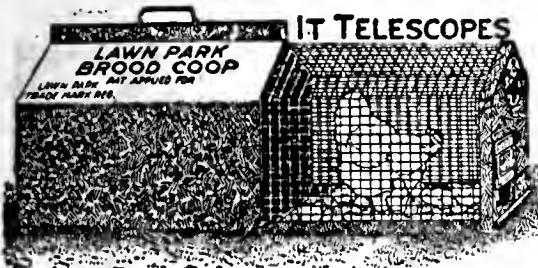
These can be used for drinking, food, and all kinds of chick feed or mash.

No. 6—6-in. diameter Feeder. Each 15c; 2 for 25c. Mailed, each 20c; 2 for 35c.

No. 7—9-in. diameter Feeder. Each 20c; 2 for 35c. Mailed, each 25c; 2 for 45c.

# Poultry Supplies

## Lawn Park Brood Coop



The wire park pulls out like bureau drawer and is made from heavy galvanized wire netting. Size of coop, 18 inches wide, 19 1/2 inches high, 48 inches long. Protects the chicks from hawks, rats, weasels, vermin, cold and storms. It is so ventilated that when park is pushed in the air circulates freely without admitting rain or snow. The coop has removable galvanized bottom. Each, \$3.50; set up, ready to use, f. o. b. Memphis. Lots of 3, K. D., f. o. b. factory, each, \$2.75.

## OLEG BANDS

### Celluloid Leg Bands

These slip on like a key ring—white, black, green, blue, and red. Made in all sizes. When ordering, state what breed, size and color you want them.

	Doz.	50	100
Turkey size	.....	\$0.25	\$0.60
Hen size	.....	.15	.40
Pullet size	.....	.15	.35
Chick size	.....	.10	.30
By mail, 10c per 100 extra.			

## Bandette Leg Bands

These are wide with large showy numbers that are easy to read. Made of celluloid, convenient to attach. They come in 3 sizes for Leghorns, Rhode Island Reds, Barred Rocks, and Wyandottes. Packed 25 to the box. Price: 25 for 60c; 50 for \$1.00; 100 for \$1.75, postpaid.

## Bandette Pigeon Bands

Easy to read, having large plain figures in following colors: Blue, Red, Yellow. They come in pairs only, numbered 1 to 12, 13 to 25, 26 to 37, 38 to 50. Price, 6 pairs, 45c, postpaid.

## Champion Leg Bands

These are adjustable to fit any size fowl, light in weight; made of aluminum, plain figures. Put up in packages as follows: 1 to 12, 1 to 25, 1 to 50, 1 to 100, 101 to 200, 201 to 300. Price, doz., 15c; 25, 25c; 100, 60c, postpaid.

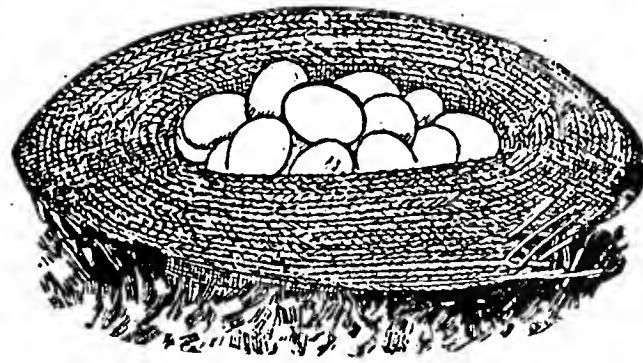
## Coloroid Celluloid Chick Bands

Furnished in the following colors: Black, blue, green, orange, red, white. They can be used several times and are easy to apply. 25, 15c; 100, 40c, postpaid.

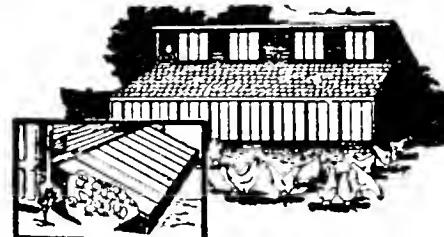
## Cardboard Egg Cartons

These are intended for delivering eggs to consumers. Hold one dozen each; have two rows, six eggs each. Doz., 20c; 100, \$1.25; 500, \$5.75. Mailed, doz., 30c; 100, \$1.50.

## Nest Eggs



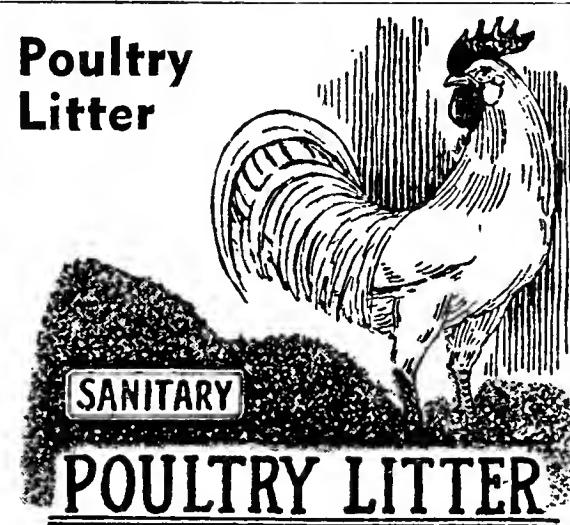
	Doz.	Post- at Store	paid
China	.....	\$0.35	\$0.45
Wooden	.....	.50	.60
Lice Expelling	.....	.75	.85



## Glass Cloth

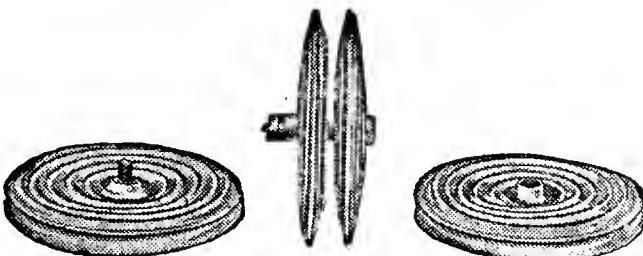
Glass Cloth is excellent for Brooder Houses, Hotbeds, Cold Frames, Windows, etc., and is a substitute for glass, except for roofing. Glass Cloth comes 3 feet wide. Piece 5 yds. long, \$1.20; mailed, \$1.40. Piece 10 yds. long, 2.30; mailed, 2.60. Piece 15 yds. long, 3.30; mailed, 3.65. Piece 50 yds. long, 10.00; mailed, 10.50.

## Poultry Litter



A perfect scratching material for baby chicks or poultry houses. It absorbs all the moisture from droppings. 2-bu. bag, 75c; 1/2 bale, \$1.90; bale, about 20 bushels, \$2.75. Cannot mail.

## Thermostat Wafers



Double disc, brass, 3 in. diameter. Accurate, dependable and fast. Universal connection fits most coal or oil brooders or incubators.

No. 416W—3 in. diameter wafers, each 30c; by mail 40c.

## Thermometers

### Brooder Thermometers

Accurate, easy to read. Porcelain enameled. Bulb guarded.

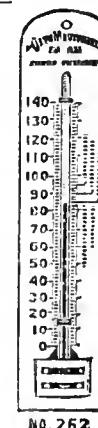
No. 266—Round wood, 8 in. long, each 50c.

No. 1265—Metal back, 4 1/2 in. long, each 35c.

No. 262—Metal back, 6 1/4 in. long, each 45c.

### Incubator Thermometers

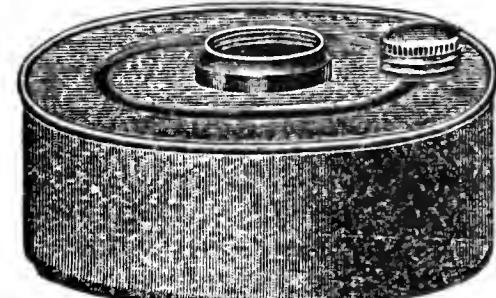
No. 5776—Tycos on stand, 75c; mailing 15c each extra.



## Dandy Egg Tester

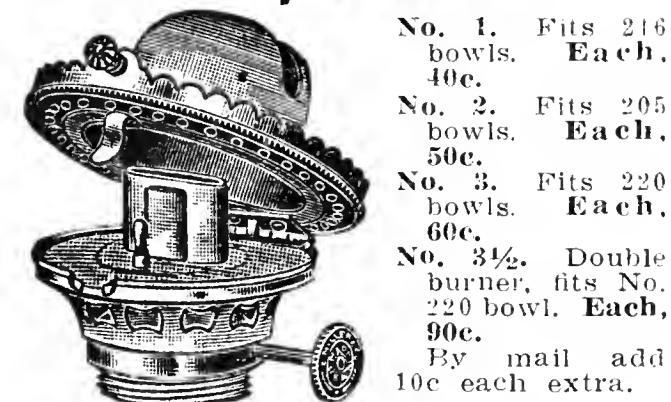
Will test eggs accurately for all purposes. Each, 20c; mailed, 30c.

## Brooder Lamp Bowls



No. 216. Quart size. Uses No. 1 burner. Each, 50c.  
No. 205. Quart size. Uses No. 2 burner. Each, 60c.  
No. 220. 2-quart size. Uses No. 3 burner. Each, 75c.  
By mail add 15c each extra.

## Lamp Burners

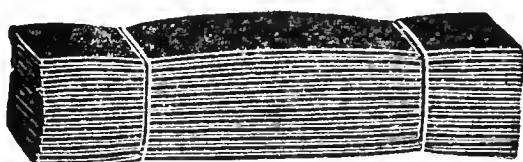


No. 1. Fits 216 bowls. Each, 40c.  
No. 2. Fits 205 bowls. Each, 50c.  
No. 3. Fits 220 bowls. Each, 60c.  
No. 3 1/2. Double burner, fits No. 220 bowl. Each, 90c.  
By mail add 10c each extra.

## Zenith Chimneyless Burners

These require no chimneys.  
No. 1S. Uses No. 1 wick. Each, 60c.  
No. 2S. Uses No. 2 wick. Each, 70c.  
No. 3S. Uses No. 3 wick. Each, \$1.00.  
By mail 10c each extra.

## Cotton Lamp Wicks



5/8 in. Fits No. 1 burners. Doz., 30c.  
7/8 in. Fits No. 2 burners. Doz., 40c.  
1 1/2 in. Fits No. 3 burners. Doz., 50c.  
By mail 10c per doz. extra.

Asbestos Wicks, for Blue Flame Oil Brooders, 2 sizes, each, 15c. Postpaid, 20c.

## Lamp Chimneys

No. 1. Fits No. 1 burner. Each, 20c.  
No. 2. Fits No. 2 burner. Each, 25c.  
No. 3. Fits No. 3 burner. Each, 30c.  
By mail add 10c each extra.

## Brooder Pipe Roof Saddles

No. 440—4-inch Roof Saddle, without cap. \$1.25.  
No. 441—5-inch Roof Saddle, without cap. \$1.50.  
By mail 20c each extra.

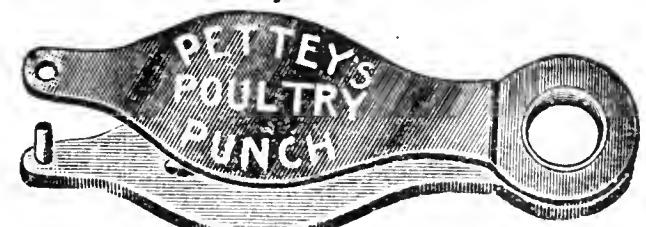
## Smoke Pipe Top Cap

No. 444—Chimney Cap for 4-inch pipe. Each, 25c; mailed, 40c.  
No. 445—Chimney Cap for 5-inch pipe. Each, 35c; mailed, 50c.

## Pigeon Nests

Galvanized metal, a good safe nest. One nail holds them in position. Each, 15c; postpaid, 25c.

## Poultry Punches

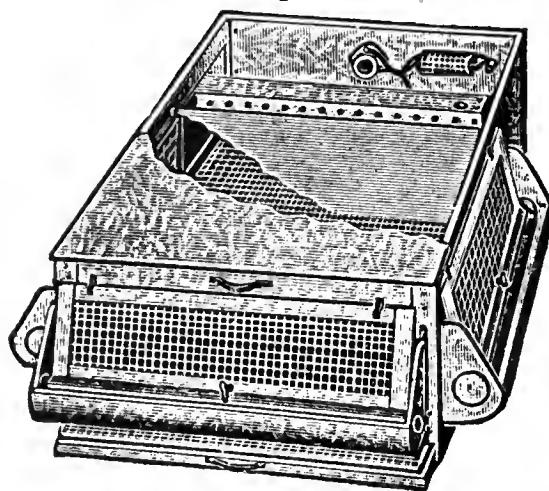


These are made for marking baby chicks by punching a hole in the web between the toes.  
Postpaid

Pocket size Punch ..... \$0.25  
No. 39 Ideal Lever Punch ..... .35

# R.-H. Co.'s Brooders

## Gro-Ezy Electric Battery Brooder



A sweeping success, a new Gro-Ezy Brooder with woven wire doors which admit more light, equipped with automatic thermostat heat control, long electric heating element, heavy curtains, heavy wire floors. Wide and deep troughs which do not waste feed and are adjustable, removable dropping pans, sanitary and easily cleaned.

Gro-Ezy Brooders should be operated in a room that is heated to 70 degrees.

The operating cost of Gro-Ezy Electric Brooders is low, uses only about one kilowatt in 24 hours. Capacity from 70 to 100 chicks.

No. 801—Complete with woven wire door (as illustrated), heating element, feed and water trough, \$9.00.

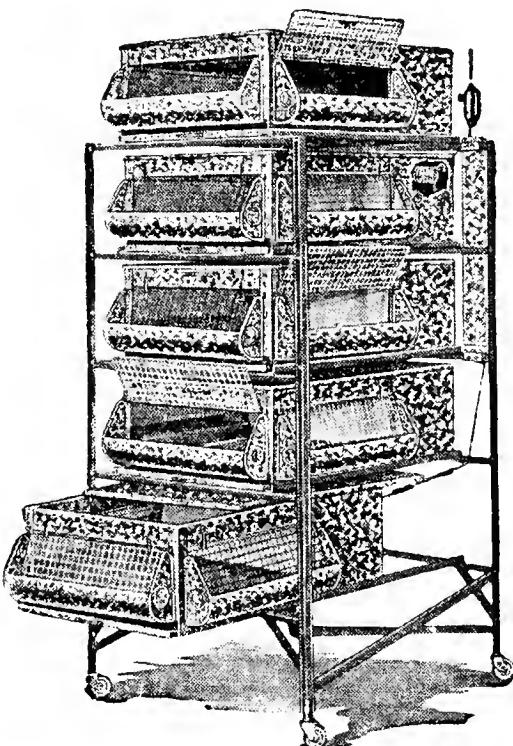
## Gro-Ezy Unit Racks

These outfits eliminate the drudgery of caring for chicks. They save lots of work, are more sanitary, eliminate loss and your chicks will grow off faster.

No. 804—4 units and rack, \$44.80.

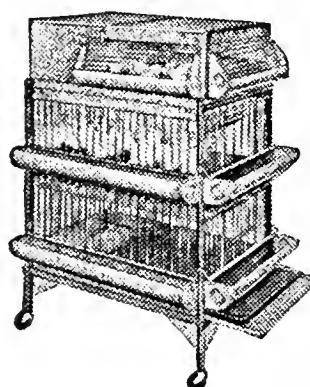
No. 805—5 units and rack, \$52.50.

No. 8045—Rack only, \$12.00.



Drudgery of caring for chicks eliminated by using Gro-Ezy Brooders.

Less loss. Better growth. More sanitary.

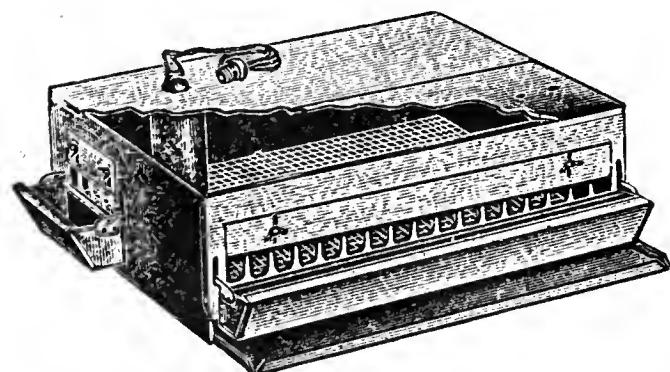


## Home Broiler Plant

Produces 35 fine broilers every four weeks. Top section is the regular No. 801 Gro-Ezy Electric Heated Brooder which takes care of 35 chicks for 5 weeks. They must be transferred to growing sections of which there are two, each equipped with one feeder and water trough complete. Specifications with catalogue mailed on request.

No. 310—Home Broiler plant as illustrated, \$24.00.

## Happy Chick Metal Box Brooder



for starting small lots of chicks. 2 ft. electric cord. Electric bulb not furnished.

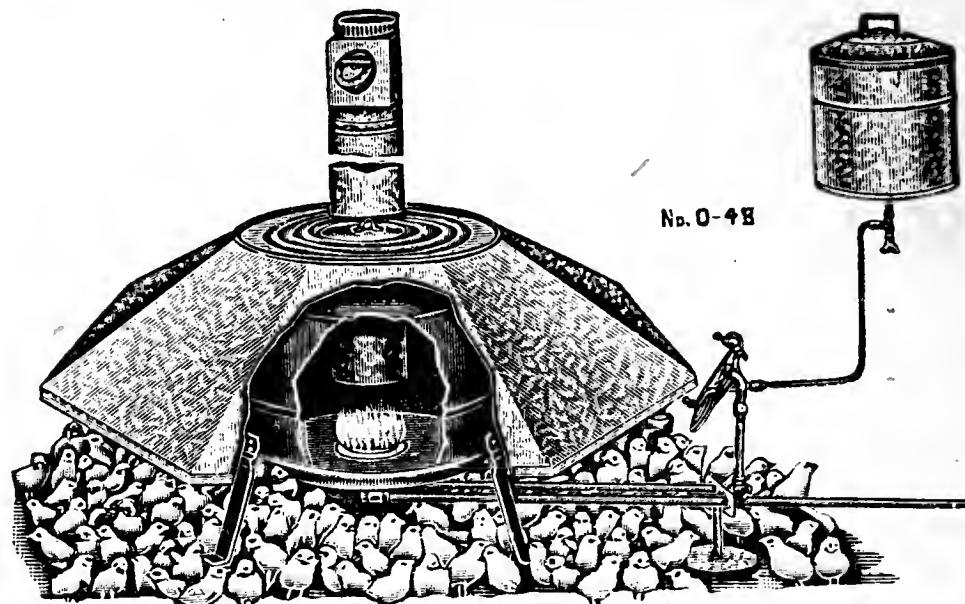
No. 375N—All Metal Box Brooder, \$2.65; by mail, \$3.00.

No. 376—Rack only to hold 6 units, f. o. b. factory only, \$5.90.

## Toxite

A sure preventative and cure for Coccidiosis, Roup, Cold, Brooder Pneumonia, etc. Also for lice, mites, bedbugs, etc. You can depend on Toxite for these poultry troubles. Postpaid, qt., 70c; gal., \$1.65. Not postpaid, qt., 50c; gal., \$1.25; 5-gal. can, \$6.00.

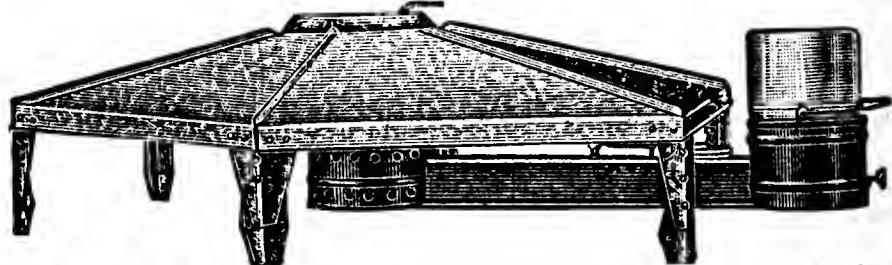
## Little Giant Oil Brooder



No. 0-48

Has wickless AIR-FED burner which provides perfect combustion; no soot or carbon formation. Burns quietly. Safe, simple, low cost brooder, dependable in any weather. Automatic regulator, easily adjusted. Comes equipped with draft equalizer and fittings. No stove pipe furnished. Fuel tank 7-gal. capacity. No. 048—Hexagonal canopy, 42 inches. Broods 300 chicks in 10x12 house. \$13.00.

## Blue Flame Oil Burning Brooder



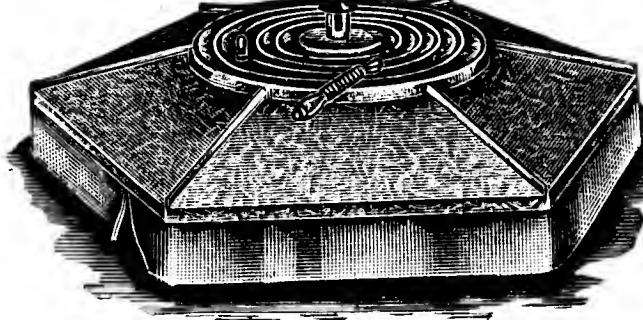
A complete trouble-free chick brooder, burns kerosene, has a giant 5-inch rigid burner with automatic heat control, operated by a brass thermostatic wafer, with a new and improved heat equalizer that keeps chicks comfortable in any kind of weather at any location under the canopy.

This smokeless and fumeless brooder is the best buy on the market, made in two sizes.

No. 842—42-inch canopy, 300-chick capacity. \$10.25.

No. 852—52-inch canopy, 500-chick capacity. \$11.00.

## Advance Electric Brooder

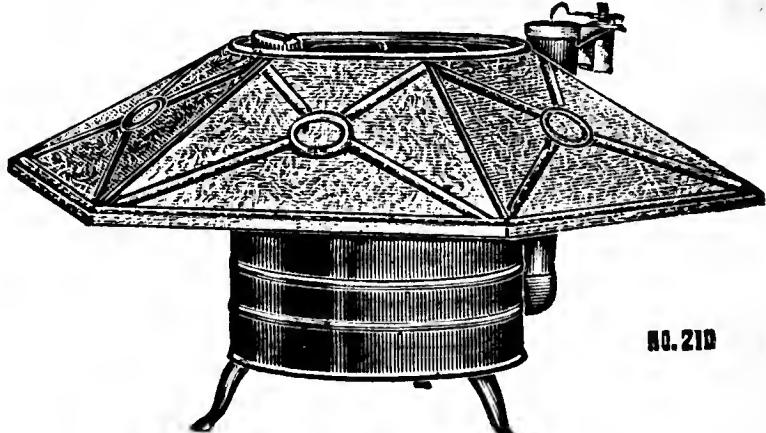


A dependable brooder with all labor-saving advantages of electricity. Carries Underwriters Label. Enclosed heating element. Insulated heat radiating deck.

Complete with cloth curtains, legs, heating element, automatic regulator, pilot light, thermometer and 8 ft. drop cord. Canopy wings as illustrated on No. 521 and 522. No. 520 round section only.

No.	Size	Capacity	Wattage	Wt.	Each
520	28 in.	85-100	250	25	\$ 8.00
521	48 in.	130-150	450	33	10.00
522	56 in.	300-350	550	39	11.00

## Dixie Wood Burning Brooder



No. 210

Burns dry or green wood. Automatic thermostat control. Down draft—no draft on chicks. Round stove body, hexagonal canopy, 60-in. diameter. Stove DRUM 22 1/2-in. diameter; 23 inches high. Overall height 28 1/2 inches. 12-in. fuel door. 6-in. chimney. Capacity 5 cu. ft. Black steel body 24 ga. with 20 ga. galv. steel liner. Reinforced bottom. Cast iron legs. Weight 66 lbs. Each, \$16.50.

# Top Notch Day-Old Baby Chicks

## Top Notch "A" Quality Chicks

Our Top Notch "A" Quality Chicks are from selected pure bred birds produced from free-range flocks, thereby insuring strong, vigorous chicks. Recommended for broilers and general utility.

Prices prepaid, for delivery January, February, March and April:

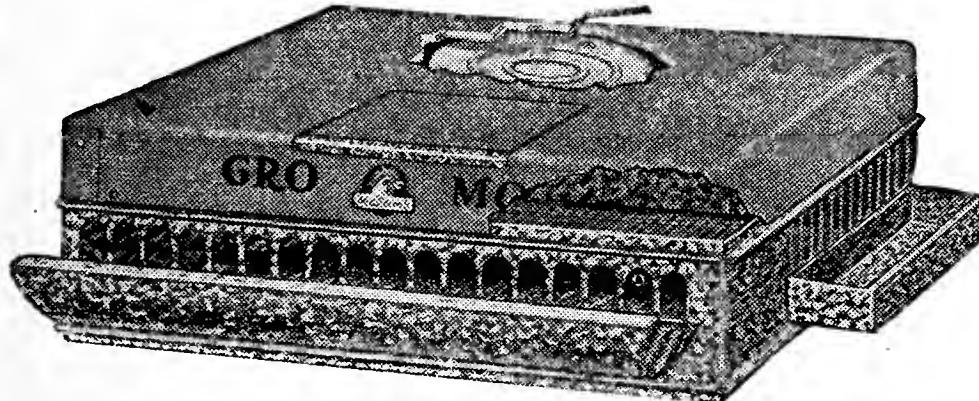
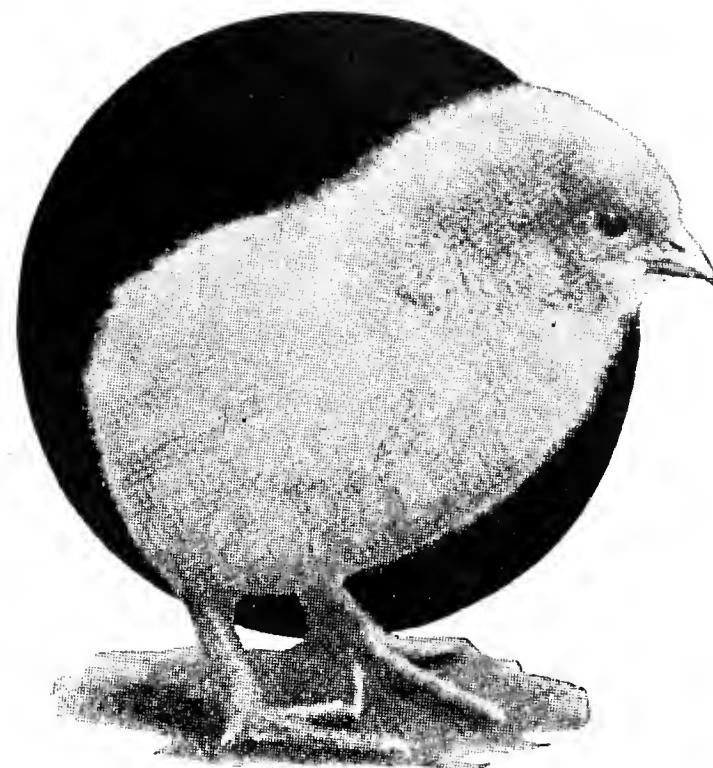
	25	50	100
Brown and White Leghorns .....	\$2.25	\$4.20	\$7.40
Barred Rocks and White Plymouth Rocks .....	2.50	4.45	7.90
Rhode Island Reds and White Wyandottes .....	2.50	4.45	7.90
Buff Orpingtons and Silver-Laced Wyandottes .....	2.50	4.70	8.40
Heavy Assorted .....	2.25	4.20	7.40

## Top Notch "AA" Quality Chicks

Our Top Notch "AA" Quality Chicks are from highly productive flocks. All are officially blood tested and chicks from these flocks will give finer results.

	25	50	100
Brown and White Leghorns .....	\$2.75	\$5.20	\$9.40
Barred Rocks and White Rocks .....	3.00	5.40	9.90
Buff Orpingtons, Rhode Island Reds, White Wyandottes .....	3.00	5.40	9.90
Black Minorcas and White Minorcas .....	3.00	5.40	9.90
Jersey White Giants .....	3.25	6.25	11.50
Silver-Laced Wyandottes .....	3.00	5.75	10.50

100% LIVE DELIVERY GUARANTEED. You will absolutely get full count of LIVE CHICKS. All orders acknowledged promptly. Remit by Post Office or Express money order. Terms on chicks are cash to all. Prices subject to change. SHIPPING CHARGES PREPAID on baby chicks anywhere in the United States.



Gro-More Brooder

## Gro-More Brooder

The floor area is 24x24 inches with 7-inch head room, which is much larger than the average makes of brooders of this kind. Capacity 75 chicks.

The sides are galvanized steel. Both feeder and waterer are unusually large and easily detached. The feed openings have turned edges and are easily adjusted for all size chicks. The top is extra heavy fibre board which conserves the heat remarkably well and if taken care of will last for years.

No. 634. Gro-More Brooder is heated by an Electric Lamp bulb and there is a galvanized steel drum around the bulb to circulate the warmth. Price 634 Gro-More Brooder furnished with feed and water pan, also cord, plug and socket to hold bulb (bulbs not furnished). Each, \$3.25; by mail, each, \$3.60.

No. 624. This is the Gro-More Electric Brooder with a 40-watt fully enclosed non-glowing heating element that furnishes more heat than the bulb type, otherwise it is the same size as No. 634 Brooder.

Price, No. 624. Gro-More Brooder, \$3.75; by mail, \$4.10.

## Ful - o - Pep Poultry Feeds

All Ful-O-Pep Feeds are now made with dried buttermilk and cod liver oil in addition to the best grains money can buy.

**FUL-O-PEP CHICK STARTER.** This is ideal for starting the flock and should be used the first 6 weeks after hatching. Postpaid, 5 lbs., 40c. At store, 5 lbs., 25c.

**FUL-O-PEP FINE CHICK FEED.** Feed when 2 weeks old in addition to starting mash. Postpaid, 5 lbs., 35c. At store, 5 lbs., 20c.

**FUL-O-PEP GROWING MASH** should be fed after the sixth week. It will help to make them grow fast. Postpaid, 5 lbs., 40c. At store, 5 lbs., 25c.

**FUL-O-PEP COARSE CHICK FEED.** Especially made for growing flocks, to be fed in connection with growing mash. Postpaid, 5 lbs., 35c. At store, 5 lbs., 20c.

**FUL-O-PEP EGG MASH.** For egg production, keep the mash before the hens at all times. It is a balanced ration to make healthy hens lay regularly. Postpaid, 5 lbs., 40c. At store, 5 lbs., 25c.

**FUL-O-PEP TURKEY STARTER.** High in protein, to keep the poult in condition. It is made especially for starting the birds off properly. Postpaid, 5 lbs., 45c. At store, 5 lbs., 30c.

**FUL-O-PEP SCRATCH GRAIN.** For grown stock, make the flock scratch for it at the evening meal. Postpaid, 5 lbs., 35c. At store, 5 lbs., 20c.

**POULTRY LITTER.** A perfect scratching material for baby chicks, a deodorant, absorbent and labor-saving material. Excellent for poultry houses and dropping boards. Assists in keeping down odors. A single application lasts for 60 days. 2-bu. bag, 75c; by mail, \$1.05. 1/2 bale, \$1.90; at store only. Full bale, about 20 bushels, \$2.75.

**BONE MEAL.** Granulated. Can be used either for chicks or hens. 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.75. Postpaid, 5 lbs., 50c; 10 lbs., 85c; 25 lbs., \$1.60.

**CHARCOAL FOR CHICKS OR HENS.** 2 lbs., 15c; 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.15. Postpaid, 2 lbs., 25c; 5 lbs., 45c; 10 lbs., 75c.

**DIGESTER TANKAGE.** For mixing hog ration. 5 lbs., 30c; 10 lbs., 45c; 25 lbs., 80c; 100 lbs., \$2.70. Postpaid, 5 lbs., 45c; 10 lbs., 70c.

**DRIED BUTTERMILK.** Controls coccidiosis in chicks. Keeps hens laying. 5 lbs., 45c; 10 lbs., 70c; 25 lbs., \$1.35; 100 lbs., \$4.75. Postpaid, 5 lbs., 60c; 10 lbs., 95c.

**HAPPY PIGEON FEED.** Happy No. 1 Mixture contains whole corn. Happy No. 2 Mixture does not contain corn. Postpaid, 5 lbs., 40c. At store, 5 lbs., 25c.

**MEAT SCRAPS.** For mixing poultry mashes, helps hens through moulting period. 5 lbs., 30c; 10 lbs., 45c; 25 lbs., 80c; 100 lbs., \$2.70. Postpaid, 5 lbs., 45c; 10 lbs., 70c.

**OYSTER SHELL.** We have the chick and hen size. 10 lbs., 25c; 25 lbs., 50c; 100 lbs., 80c. Postpaid, 10 lbs., 50c.

**POULTRY GRIT.** Chick or hen size. 10 lbs., 25c; 25 lbs., 50c; 100 lbs., 90c. Postpaid, 10 lbs., 50c.

**RABBIT MASH.** A balanced ration for rabbits to keep them healthy and fat. Postpaid, 5 lbs., 40c. At store, 5 lbs., 25c.

**RED CROSS PIGEON GRIT.** Keeps pigeons in good health. 5 lbs., 25c; 10 lbs., 40c; 25 lbs., 75c; 100 lbs., \$2.75. Postpaid, 5 lbs., 45c; 10 lbs., 65c.

**ROLLED OAT MEAL.** Fine for feeding baby chicks, rabbits, etc. 5 lbs., 30c; 10 lbs., 40c; 25 lbs., 75c; 100 lbs., \$2.65. Postpaid, 5 lbs., 50c; 10 lbs., 65c.

**SCHUMAKER CALF MEAL.** A perfect milk substitute prevents scours and keeps calves in condition. 25 lbs., 95c; 100 lbs., \$3.30 at store only.

**SUNFLOWER SEED.** For feeding poultry, parrots, etc. 5 lbs., 40c; 10 lbs., 65c; 25 lbs., \$1.20; 100 lbs., \$3.75. Postpaid, 5 lbs., 55c; 10 lbs., 90c.

QUANTITY PRICES ON FUL-O-PEP POULTRY FEEDS GIVEN ON OUR GREEN INK LIST.

## ALPHABETICAL INDEX

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**PRICES**

**PRICES**

The prices we quote on vegetable and flower seeds will hold good as long as stocks last. The prices on all farm seeds, grain, etc., are those ruling January 2nd, 1939, and are subject to market changes. As far as possible we will fill all orders for such seeds in full, but if market values will not permit this we will send all that money remitted will pay for.

## **NON-WARRANTY**

**NON-WARRANTY**  
Russell-Heckle Seed Company gives no warranty, express or implied, as to description, quality, productiveness of any seeds, plants, bulbs or nursery stock they send out, and they will not be in any way responsible for the crop. You can take your seed home, examine them, test them, call in your County Agent, and if our seeds are not as represented, return them at once, and we will refund your money.



## BEANS—GARDEN

Packed in 2 Bu. 120-lb. Bags	1/2 pk.	Bu.	100
Black Valentine Stringless Bush.....	\$.90	\$6.45	1.70
Bountiful Bush.....	.90	1.65	6.15
Burpee's Stringless Green Bush.....	.90	1.60	5.75
Full Measure Bush.....	.90	1.65	6.15
Giant Stringless Green Pod Bush.....	.90	1.60	5.75
Imp. Early Red Valentine Bush.....	.90	1.60	5.75
Tennessee Green Pod Bush.....	.90	1.60	5.75
Tendergreen Stringless Bush.....	.90	1.65	6.15
Imp. Golden Wax Bush.....	.90	1.70	6.00
Prolific Black Wax Bush.....	.90	1.75	6.25
Sure Crop Wax Bush.....	.90	1.75	6.25
Kentucky Wonder Pole.....	1.00	1.70	6.00
Ideal Market Pole.....	1.00	1.70	6.00
McCaslan Pole.....	1.00	1.70	6.00
Seata Striped Cornfield Pole.....	1.00	1.70	6.00
Tennessee Wonder Pole.....	1.00	1.70	6.00
White Creaseback Pole.....	1.00	1.70	6.00
White Seeded Kentucky Wonder Pole.....	1.00	1.60	5.75
Burpee's Imp. Bush Lima.....	1.00	1.85	7.00
Fordhook Bush Lima.....	1.00	1.95	7.60
Henderson Bush Lima.....	1.00	1.70	5.90
Jackson Wonder Bush Lima.....	1.00	1.70	6.00
Wood's Prolific Bush Lima.....	1.00	1.70	6.00
Carolina Sieve Butter Pole.....	1.00	1.70	5.90
Florida or Calico Pole Butter.....	1.00	1.75	6.50
King of the Garden Pole Lima.....	1.00	1.75	6.50
Large White Pole Lima.....	1.00	1.75	6.50
Willow Leaf Pole Lima.....	1.00	1.70	6.25
Great Northern Field.....	.85	1.50	5.50
Pinto Field.....	.85	1.50	5.50
Red Kidney Field.....	.85	1.60	5.75
White Navy Field.....	.85	1.50	5.40

## PEAS—ENGLISH

Packed in 2 Bu. Bags.	1/2 pk.	Bu.	100
Alaska Early Wilt Resistant.....	.80	1.30	4.50
Almer Large Pod Alaska.....	.80	1.40	4.75
First and Best Ex. Ea.....	.80	1.45	5.00
Large White Marrowfat.....	.80	1.45	5.00
WRINKLED PEAS			
American Wonder.....	.85	1.60	5.60
Bliss Everbearing.....	.85	1.60	5.60
Champion of England.....	.85	1.60	5.60
Dwarf Telephone.....	.85	1.50	5.25
Gradus Prosperity.....	.85	1.50	5.25
Laxtonian.....	.85	1.60	5.60
Laxtons Progress.....	.85	1.60	5.60
McLean's Little Gem.....	.85	1.60	5.60
Tall Telephone.....	.85	1.60	5.25
Thos. Laxton.....	.85	1.60	5.60

## CORN—GARDEN

Bu. 56 Lbs.	1/2 pk.	Bu.	100
Early Large Adams.....	\$.60	\$1.00	3.90
Extra Early Adams.....	.60	4.00	6.25
Early Surprise genuine Northern.....	.60	1.00	3.00
Early Surprise Southern.....	.50	.75	2.25
Early Snowflake.....	.50	.80	2.50
Improved Adams.....	.60	1.00	3.90
Trucker's Favorite.....	.60	1.00	3.00
CORN—SUGAR			
Borden's Wonder Bantam.....	\$.65	\$1.20	4.50
Country Gentlemen.....	.65	1.20	4.50
Golden Colonel.....	.65	1.20	4.75
Golden Cross Hybrid.....	1.25	2.00	8.00
Long Island Beauty.....	.65	1.20	4.75
Stowell's Evergreen.....	.65	1.20	4.50
Top Cross Golden Bantam.....	1.25	2.00	8.75
Whippell's Early Yellow.....	.65	1.20	4.50

## HOT KAPS

Pkg. 100 with Tamper & Setter.....	2.65
Pkg. 250 with Tamper & Setter.....	3.85
Pkgs. 1000 less Tamper & Setter.....	10.25
Pkgs. 1000 without Tamper & Setter.....	6.50

## FERTILIZER

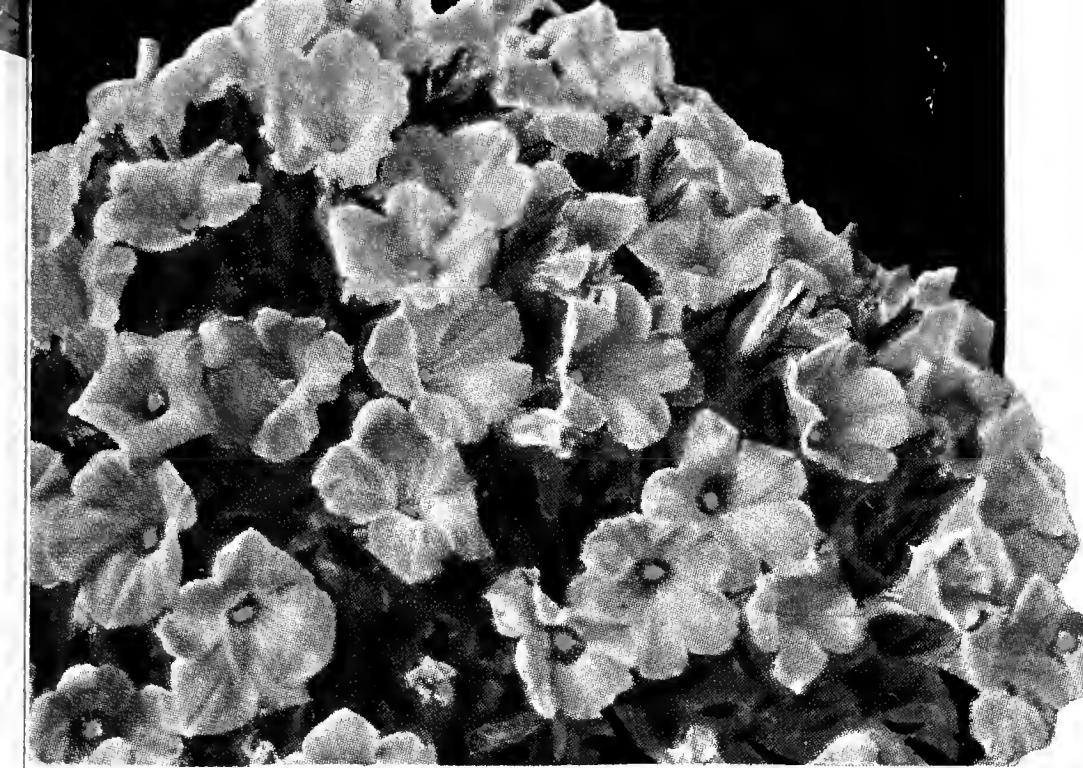
100	100	lbs.	25
MUSTARD SEED	5	10	25
Chinese Mammoth.....	\$1.25	1.25	100
Elephant Ear.....	\$2.00	2.00	100
Florida Broad Leaf.....	2.00	2.00	100
Long Standing Giant Curled.....	1.25	1.25	100
Southern Giant Curled.....	1.25	2.00	100
Tendergreen Jap. Must. Spinach.....	1.25	2.00	100
PUMPKIN	5	10	25
Kentucky Yellow Field.....	\$1.00	\$1.75	100
RADISH	5	10	25
Early Scarlet Globe.....	\$1.40	\$2.60	100
Early Scarlet Turnip Whlte Tip.....	1.40	2.60	100
White Icicle.....	1.40	2.60	100
Cooper's Sparkler White Tip.....	1.40	2.60	100
SPINACH	5	10	25
Bloomsdale Curled Savoy.....	\$90	\$1.50	100
Giant Noble.....	.90	1.50	100
Long Standing Bloomsdale Savoy.....	.90	1.50	100
Norfolk Blight Resistant Savoy.....	.90	1.50	100
Presto Savoy.....	.90	1.50	100
Viroflay Broad Leaf.....	.90	1.50	100
TURNIP SEED	5	10	25
American Purple Top White Globe.....	\$1.75	\$3.00	100
Ex. Ea. Purple Top Milan.....	1.50	2.75	100
Florida or Calico Pole Butter.....	1.00	2.00	100
King of the Garden Pole Lima.....	1.00	2.00	100
Large White Pole Lima.....	1.00	2.00	100
Red or Purple Top Strap Leaf.....	1.10	2.00	100
Southern Seven Top.....	1.10	2.00	100
White Flat Dutch Strap Lcaf.....	1.10	2.00	100
White Egg .....	1.10	2.00	100
WATERMELON	1	5	10
Dixie Queen.....	\$.75	\$2.75	10
Halbert Honey.....	.45	1.75	25
Irish Gray .....	.45	1.75	25
Kleckley's Sweet .....	.45	1.75	25
New Wonder.....	.45	1.75	25
Schlochler .....	.45	1.75	25
Stone Mountain .....	.45	1.75	25
Tom Watson .....	.45	1.75	25
Winona Regular .....	.80	3.50	25
Special Kleckley's Sweet .....	.80	3.25	25
Special Stone Mountain.....	.80	3.25	25
Special Tom Watson.....	.80	3.25	25
FROST PROOF CABBAGE PLANTS	1	5	10
500	1000	3000	12000
F.O.B. Memphis Available Feb. 1.....	\$1.25	\$1.85	\$18.00
F.O.B. Growing Station Ready Feb. 1 .....	.....	4.25	13.80
BERMUDA ONION PLANTS	10	Crates	10
Available Feb. 1st.....	500	1000	6000
White or Yellow F.O.B. Memphis.....	\$40	\$75	\$6000
ONION SETS	10	Crates	10
7/8 Inch. Small Sets.	Gal.	Pk.	lbs.
Red Wethersfield .....	\$35	\$65	\$25
Yellow Danvers .....	.35	2.00	.20
White Silver Skin.....	.50	.90	.20
PEAT MOSS & POULTRY LITTER	10	Crates	10
2 Bu. Bags 75c; 1/2 Bale.....	\$.65	\$4.50	\$37.50
Full Bale, about 20 Bu.....	.....	.....	.....
BIRD SEED—BULK	5	25	100
Bird Hemp.....	\$50	\$95	\$2.85
Bird Millet.....	35	.60	1.20
Bird Rape.....	50	.90	2.00
Canary Seed Plain.....	50	.85	2.00
Canary Seed Mixed.....	45	.75	1.75
Sunflower Sced .....	40	.70	1.50

## SPRAY MATERIALS

Arsenate of Lead, 4 lbs. 75c; case 12-4's.....	\$ 6.72
Atlaclide, 15 lbs. \$2.85; 50 lbs. \$5.50; 100 lbs. ....	10.00
Bordeaux Powder, 4 lbs. 65c; case 12-4's.....	6.72
Blue Stone Cop. Sulp. small Cryst., 10 lbs. 90c; 100 lbs. ....	7.50
Blue Stone Cop. Sulp. Powd., 10 lbs. 90c; 100 lbs. ....	8.00
Calcium Arsenate, 4 lbs. 50c; case 12-4's.....	3.84
Dritomeric Sulphur Peach, 5 lbs. 75c; case 50 lbs. ....	7.50
Dritomeric Sulphur Apple, 4 lbs. 60c; case 48 lbs. ....	4.32
Ethylenc Diehloride Emul., gal. \$1.35; 5 gal. \$6.25; 50 gal. ....	8.00
Ethylenic Lime, 10 lbs. 25c; 40 lb. bag. ....	4.00
Kayso Spreader, 10 lbs. \$2.00; 25 lbs. \$1.00; 100 lbs. ....	15.00
Kayso Spreader, 10 lbs. \$2.00; 25 lbs. \$1.00; 100 lbs. ....	15.00
Lime Sulphur Dry, 12 1/2 lbs. \$1.50; 100 lbs. ....	9.00
Lime Sulphur Solution, 5 gal. \$2.25; 10 gal. ....	4.00
Lime Sulphur Solution, 30 gal. \$6.60; 55 gal. ....	9.35
Mulsolid Wettable Sulfur 4 lbs. 50c; Case 48 lbs. ....	3.80
Oil Emulsion, 5 gal. \$2.25; 10 gal. ....	4.00
Oil Emulsion, 30 gal. \$6.60; 55 gal. ....	10.45
Sealcide, 5 gal. \$5.50; 10 gal. ....	9.50
Spray Mulsion 96% Oil, gal. 75c; 5 gal. ....	2.75
Spray Mulsion 96% Oil, 10 gal. \$4.50; 55 gal. ....	15.00
Sulphur Powdered, 10 lbs. 70c; 25 lbs. \$1.00; 100 lbs. ....	3.40
Sulphur Micro Wettable, 4 lbs. 50c; 10 lbs. \$1.00; case 50 lbs. ....	4.50
Tobacco Dust, 10 lbs. 60c; 25 lbs. \$1.00; 100 lbs. ....	3.00
Zinc Sulphate, 5 lbs. 50c; 25 lbs. \$1.75; 100 lbs. ....	4.50

## DOG FEED—DOG BISCUIT

4	10	25	
lbs.	lbs.	lbs.	
Chappel's Ken-L-Worth Kibbled.....	\$40	\$90	\$2.00
Miller Dog Ration.....	.30	.65	.140
Mulsolid Whole & Kibbled Biscuit.....	.40	.90	.200
Miller's Puppy Meal.....	.40	.90	.200
Miller's Meatus, Cubes.....	.35	.70	.150
Old Trusty Kibbled.....	.40	.85	.200
HILL'S CANNED MEAT FOR DOGS	5	25	50
Hill's Canned Dog Food, 1 lb. cans.....	\$.65	\$2.55	\$2.55
Ideal, Wilson's 1 lb. cans.....	1.00	3.60	3.60
Miller's Quick Lunch, 1 lb. cans.....	1.00	3.95	3.95
Ken-L-Ration .....	1.00	3.85	3.85
POULTRY & PIGEON FEED	5	25	50
Ful-O-Pep Chick Starter .....	\$.25	\$85	\$85
Ful-O-Pep Fine Chick Feed.....	.20	.65	.120
Ful-O-Pep Coarse Chick Feed.....	.20	.60	.110
Ful-O-Pep Egg Mash .....	.25	.75	.145
Ful-O-Pep Growing Mash .....	.20	.55	.100
Ful-O-Pep Hen Scratch .....	.20	.55	.100
Ful-O-Pep Turkey Starter .....	.30	.95	.185
Dried Buttermilk .....	.40	1.75	3.00
Happy Pigeon Feed Nos. 1 or 2 .....	.25	1.00	1.90
Rolled Oat Meal .....	.25	.90	1.60
Sunrise Rabbit			



### Celestial Rose Petunia

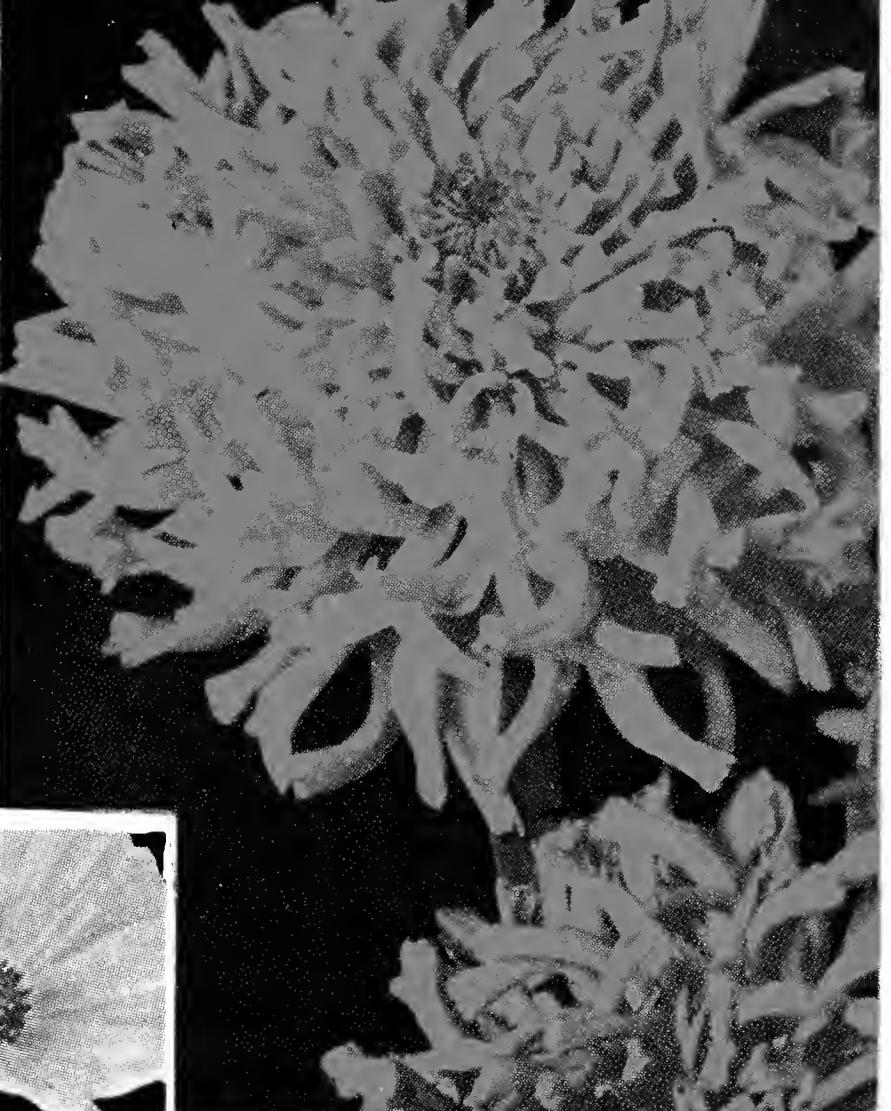
This lovely Nana Erecta Petunia is a charming shade of rich rose. It blooms early on strong, vigorous plants. Fine for bedding or border, and is one of the very best pink Petunias of its class.

Pkt., 10c; 1/16 oz., 40c; 1/8 oz., 75c; 1/4 oz., \$1.25.

### Pinkie Sensation Cosmos

The large flowers are carried on long, strong stems which are delightful shades of rose-pink with ruffled petals. The flowers are produced in about ten weeks from seed and are of immense size, 4 to 5 inches in diameter.

Pkt., 10c; 1/16 oz., 30c; 1/8 oz., 50c; 1/4 oz., 70c.



### Fantasy Zinnia

The latest varieties in this beautiful class of shaggy-flowered Zinnias.

**Star Dust Fantasy.** (illustrated.) Golden yellow.

**Rosalie Fantasy.** Bright rose shade.

**Orange Lady Fantasy.** Deep bright orange.

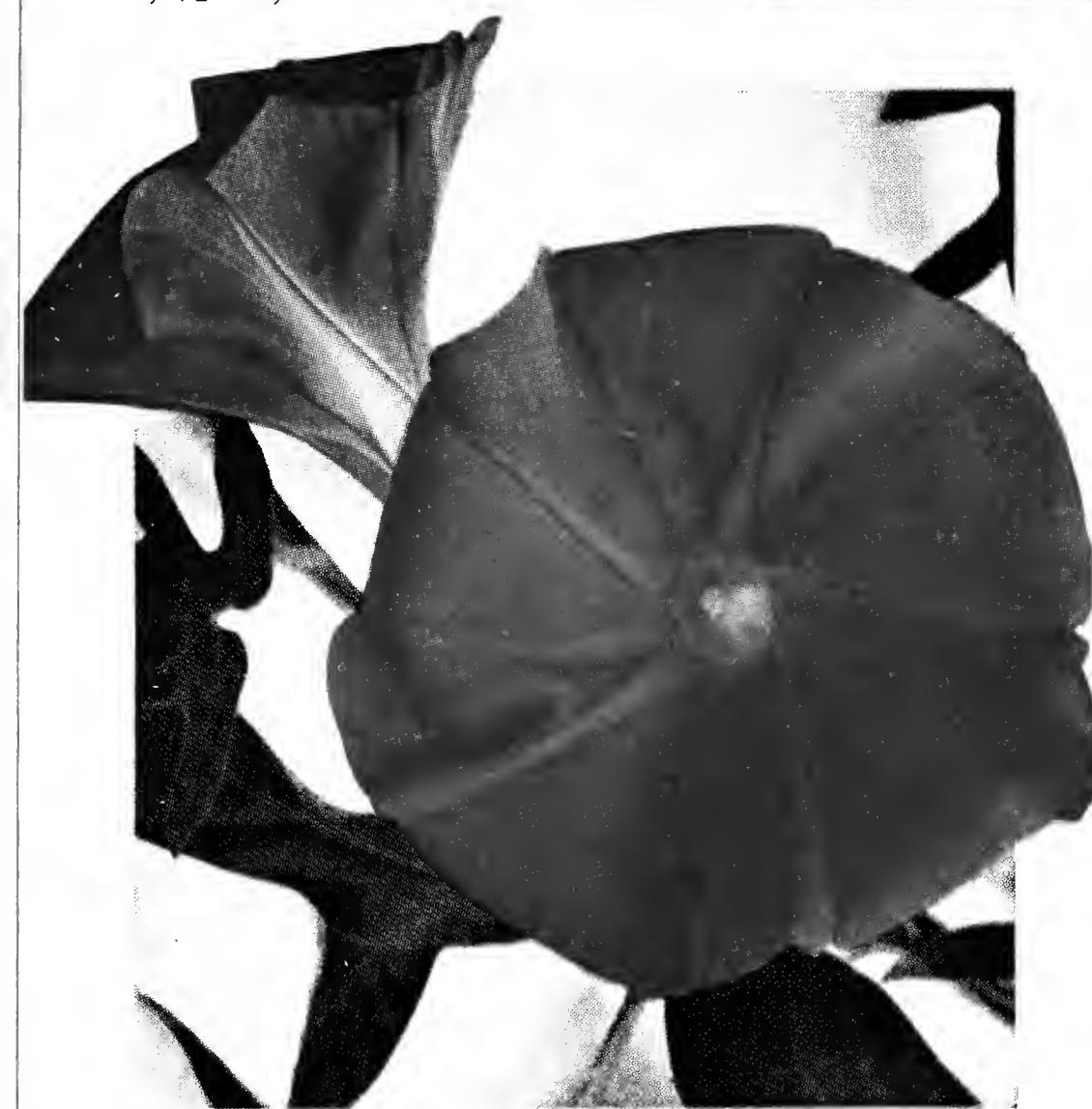
**White Light Fantasy.** Nearly pure white.

Packet, each, 15c; 4 pkts., one of each, 40c; 1/16 oz., 35c; 1/8 oz., 50c; 1/4 oz., 75c; 1/2 oz., \$1.25, postpaid.

### University of California Snapdragons

A rust-proof strain of this glorious showy flower. Plants are base-branching, very free flowering, each producing 12 to 18 long, graceful spikes of extra large blooms in a fine mixture of colors.

Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 60c; 1/2 oz., \$1.00; 1 oz., \$1.75, postpaid.



### Scarlett O'Hara Morning Glory

An entirely new color in this popular garden flower; rich dark wine-red, or deep rosy crimson. About 4 inches in diameter; blooms 65 days after sowing of seed, very showy for fences or trellis. Scarlett O'Hara Morning Glory was awarded the gold medal in last year's All-America selection.

Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c; 1/8 oz., 75c; 1/4 oz., \$1.00; 1/2 oz., \$1.50; 1 oz., \$2.50, postpaid.



## Early Prolific Straightneck Squash

1937 All-America Selection. Fruits straight, bright golden yellow, slightly warted. Tender and of delicious quality.

Pkt., 10c; oz., 25c; 2 ozs., 35c;  $\frac{1}{4}$  lb., 50c;  $\frac{1}{2}$  lb., 80c; 1 lb., \$1.35, postpaid.

## Top Cross Hybrid Golden Bantam Sweet Corn

A grand variety, larger than Golden Bantam; ears 8 inches long with 10 to 14 rows of light yellow kernels which are delicious and sweet. It is highly resistant to birds and corn-ear worms, producing two to three ears to a stalk.

Postpaid,  $\frac{1}{4}$  lb., 15c;  $\frac{1}{2}$  lb., 25c; 1 lb., 45c; 2 lbs., 70c; 5 lbs., \$1.45. Not prepaid,  $\frac{1}{2}$  lb., 20c; 1 lb., 35c; 2 lbs., 60c; 5 lbs., \$1.25.

## Certified Tomato Seed

Recommended for excellency of stock, trueness to type and freedom from diseases. All of the following varieties are grown under the supervision of the New Jersey Department of Agriculture. It will pay you to use some of these.

Certified Master Marglobe  
(illustrated)

Certified Bonny Best

Certified Greater Baltimore

Certified Gulf State Market

Certified Break O' Day

Certified Earliana

Certified New Stone

Price any above Certified Tomatoes: Postpaid, pkt., 10c; 4 pkts., 30c; 1 oz., 40c; 2 ozs., 70c;  $\frac{1}{4}$  lb., \$1.15;  $\frac{1}{2}$  lb., \$1.85; 1 lb., \$3.35.

Master  
Marglobe

**RUSSELL-HECKLE SEED CO.**  
MEMPHIS, TENNESSEE